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April 9, 2004

Chairman Deborah Taylor Tate  
Tennessee Regulatory Authority  
460 James Robertson Parkway  
Nashville, Tennessee 37243

DOCKET NO.  
04-00107

Re: Petition for Approval of Interconnection, Resale and Collocation Agreement  
between United Telephone-Southeast, Inc. and Citynet Tennessee, LLC

Dear Chairman Tate:

Enclosed are an original and thirteen (13) copies of the Petition of United Telephone-Southeast, Inc. for approval of Interconnection, Resale and Collocation Agreement between United Telephone-Southeast, Inc. and Citynet Tennessee, LLC. United Telephone-Southeast, Inc. is not aware of any provisions in this interconnection agreement that are inconsistent with any previous Authority decisions in proceedings to which United was a party.

Also enclosed is a check in the amount of \$50.00 for the filing fees for both companies. Please contact me or Laura Sykora if you have any questions.

Sincerely yours,

Edward Phillips

HEP:sm

Enclosures

cc: Laura Sykora  
Kaye Odum  
Tim Phillips, CAPD

## **Master Network Interconnection, Resale and Collocation Agreement**

This Master Network Interconnection, Resale and Collocation Agreement ("Agreement") between Citynet Tennessee, LLC ("CLEC") and United Telephone – Southeast, Inc. ("Sprint"), herein collectively, "the Parties", is dated and effective this 15th day of March, 2004 for the State of Tennessee.

NOW THEREFORE, the Parties agree as follows:

The Parties agree that the Agreement between the Parties shall consist of the Interconnection and Resale Agreement for the State of Tennessee entered into by and between Sprint and NA Communications, Inc., including any amendments entered into as of the date hereof (the "Adopted Agreement"), amended as follows:

### **TERM:**

This Agreement shall be in force for the period commencing with the date set forth above and continuing until the 31<sup>st</sup> of March, 2005.

### **AMENDMENTS:**

The Parties wish to amend the Agreement to reflect the Triennial Review Order.

In consideration of the terms and conditions contained in this Amendment, the Parties agree as follows;

### **TERMS & CONDITIONS:**

#### **The Agreement is amended to add the following definitions:**

"Commingle" means the act of Commingling.

"Commingling" means the connecting, attaching, or otherwise linking of an unbundled network element, or a combination of unbundled network elements, to one or more facilities or services that CLEC has obtained at wholesale from Sprint or the combining of an unbundled network element, or a combination of unbundled network elements with one or more such facilities or services.

"Copper Loop" is a stand-alone local loop comprised entirely of copper wire or cable. Copper Loops include two-wire and four-wire analog voice-grade copper Loops, digital copper Loops (e.g., DSOs and integrated services digital network lines), as well as two-wire and four-wire copper Loops conditioned to transmit the digital signals needed to provide digital subscriber line services, regardless of whether the copper Loops are in service or held as spares. The copper Loop includes attached electronics using time division multiplexing technology, but does not include packet switching capabilities.

“Dark Fiber Loop” is fiber within an existing fiber optic cable that has not yet been activated through optonics to render it capable of carrying communications services.

“Demarcation Point” is that point on the loop where Sprint’s control of the facility ceases, and the End User Customer’s control of the facility begins.

“DS1 Loop” is a digital local Loop having a total digital signal speed of 1.544 megabytes per second. DS1 Loops include, but are not limited to, two-wire and four-wire copper Loops capable of providing high-bit rate digital subscriber line services, including T1 services.

“DS3 Loop” is a digital local Loop having a total digital signal speed of 44.736 megabytes per second.

“Fiber-to-the-home Loop” (“FTTH Loop”) means a local loop consisting entirely of fiber optic cable, whether dark or lit, and serving an end-user’s customer premises.

“High Frequency Portion of the local Loop” (“HFPL”) is defined as the frequency range above the voice band on a copper Loop facility that is being used to carry analog circuit-switched voice band transmissions provided by Sprint to the end-user customer.

“Hybrid Loop” means a local Loop comprised of both fiber optic cable, usually in the feeder plant, and copper wire or cable usually in the distribution plant.

“Non-qualifying Service” means a service that is not a Qualifying Service.

“Qualifying Service” means a telecommunications service that competes with a telecommunication service that has traditionally been the exclusive or primary domain of Sprint, including but not limited to, local exchange service, such as plain old telephone service, and access services, such as digital subscriber line services and high-capacity circuits.

**The definitions in the Agreement are modified as follows:**

“Common Transport” provides a local interoffice transmission path between End Office Switches, between End Office Switches and Tandem Switches and between Tandem Switches in Sprint’s network. Common Transport is shared between multiple customers and is required to be switched at the Tandem Switch.

“Dedicated Transport” provides a local interoffice transmission path between Sprint Wire Centers or switches. Dedicated Transport is limited to the use of a single customer and does not require switching at a Tandem Switch.

“Enhanced Extended Link” (“EEL”) for purposes of this Agreement refers to the combination of unbundled network elements, specifically NID, Loop, multiplexing (MUX) if necessary and Dedicated Transport, in the Sprint Network.

“Local Loop” refers to a transmission facility between the main distribution frame [cross-connect], or its equivalent, in a Sprint Central Office or wire center, and up to the demarcation point (e.g. Network Interface Device) at a customer’s premises, to which CLEC is granted exclusive use. This includes all electronics, optronics and intermediate devices (including repeaters and load coils) used to establish the transmission path to the customer premises. Local loops include copper loops, hybrid loops, FTTH loops, DS1 loops, DS3 loops and Dark Fiber Loops.

**Delete:**

**The following provisions are deleted from the Agreement:**

“High Frequency Spectrum Unbundled Network Element” (“HFS UNE”) is defined as the frequency range above the voice band on a copper loop facility that is being used to carry analog circuit-switched voice band transmissions. The FCC’s Third Report and Order in CC Docket No. 98-147 and Fourth Report and Order in CC Docket No. 96-98 (rel. December 9, 1999) (the “Line Sharing Order”) references the voice band frequency of the spectrum as 300 to 3000 Hertz (and possibly up to 3400 Hertz) and provides that xDSL technologies which operate at frequencies generally above 20,000 Hertz will not interfere with voice band transmission.

**Under “Regulatory Approvals”**

On February 20, 2003, the FCC adopted rules concerning incumbent LEC obligations to make elements of their networks available on an unbundled basis at its open meeting. *In the Matter of the Review of the Section 251 Unbundling Obligations of Incumbent Local Exchange Carriers*, Docket No. CC 01-338. The Parties agree that any effective regulatory order, rule or regulation issued as a result of such open meeting shall constitute a revision or modification of the Applicable Rules and either Party may request that this Agreement be renegotiated in good faith to reflect such Amended Rules. Should the Parties be unable to reach agreement with respect to the appropriate modifications to this Agreement within thirty (30) days, either party may invoke the Dispute Resolution provisions of this Agreement.

**Replace the entire UNE Part of the Agreement as follows:**

**PART E - NETWORK ELEMENTS**

**1. GENERAL**

- 1.1. Pursuant to the following terms, Sprint will unbundle and separately price and offer Unbundled Network Elements (“UNEs”) such that CLEC will be able to subscribe to and interconnect to whichever of these unbundled elements CLEC requires for the purpose of offering Qualifying Services to its customers. CLEC shall pay Sprint each month for the UNEs provisioned, and shall pay the non-recurring charges listed in Table One or agreed to by the Parties. It is CLEC’s obligation to combine Sprint-provided UNEs with any facilities and services that CLEC may itself provide. Sprint will continue to offer the UNEs enumerated



below subject to further determinations as to which UNEs ILECs are required to offer under the Act, at which time the Parties agree to modify this section pursuant to the obligations set forth in Part B, Section 4 of this Agreement.

## **2. UNBUNDLED NETWORK ELEMENTS**

- 2.1. Sprint shall offer UNEs to CLEC for the purpose of offering a Qualifying Service to CLEC subscribers. CLEC may not access UNEs for the sole purpose of providing Non-qualifying Services. Sprint shall offer UNEs to CLEC on an unbundled basis on rates, terms and conditions that are just, reasonable, and non-discriminatory in accordance with the terms and conditions of this Agreement.
- 2.2. CLEC may use one or more UNEs to provide any feature, function, capability, or service option that such UNE(s) is (are) technically capable of providing, except as otherwise limited herein. Except as provided elsewhere in this Agreement, it is CLEC's obligation to combine Sprint provided UNEs with any and all facilities and services whether provided by Sprint, CLEC, or any other party.
- 2.3. Each UNE provided by Sprint to CLEC shall be at Parity with the quality of design, performance, features, functions, capabilities and other characteristics, that Sprint provides to itself, Sprint's own subscribers, to a Sprint Affiliate or to any other Telecommunications Carrier requesting access to that UNE.

## **3. BONA FIDE REQUEST PROCESS**

- 3.1. The receiving Party shall promptly consider and analyze access to UNEs or combinations of UNEs not specifically covered in this Agreement with the submission of a Bona Fide Request ("BFR") hereunder.
- 3.2. A BFR shall be submitted in writing on the Sprint Standard BFR Form and shall include a clear technical description of each request.
- 3.3. The requesting Party may cancel a BFR at any time, but shall pay the other Party's reasonable and demonstrable costs of processing and/or implementing the BFR up to the date of cancellation.
- 3.4. Within ten (10) calendar days of its receipt, the receiving Party shall acknowledge receipt of the BFR.
- 3.5. Except under extraordinary circumstances, within thirty (30) calendar days of its receipt of a BFR, the receiving Party shall provide to the requesting Party a preliminary analysis of such BFR. If applicable, the preliminary analysis shall confirm whether the receiving Party will offer access to the UNE, including whether it is technically or operationally feasible.
- 3.6. Upon receipt of the preliminary analysis, the requesting Party shall, within thirty (30) calendar days, notify the receiving Party, in writing, of its intent to proceed or not to proceed.
- 3.7. The receiving Party shall promptly proceed with the BFR upon receipt of written

authorization from the requesting Party. When it receives such authorization, the receiving Party shall promptly develop the requested services, determine their availability, calculate the applicable prices and establish installation intervals.

- 3.8. As soon as feasible, but not more than ninety (90) calendar days after its receipt of authorization to proceed with developing the BFR, the receiving Party shall provide to the requesting Party a BFR Quote which will include, at a minimum, a description of each service or UNE, the availability, the applicable rates and the installation intervals.
- 3.9. Within thirty (30) calendar days of its receipt of the BFR Quote, the requesting Party must either confirm, in writing, its order for the BFR pursuant to the BFR Quote or if a disagreement arises, seek resolution of the dispute under the Dispute Resolution procedures in Part B of this Agreement.
- 3.10. If a Party to a BFR believes that the other Party is not requesting, negotiating or processing the BFR in good faith, or disputes a determination, or price or cost quote, such Party may seek resolution of the dispute pursuant to the Dispute Resolution provisions in Part B of this Agreement.

#### **4. INDIVIDUAL CASE BASIS PRICING**

- 4.1. Individual Case Basis (ICB) pricing will be provided by Sprint upon request from the CLEC for customer specific rates or terms for network services and features for UNEs that are not otherwise provided for in this Agreement.
- 4.2. Sprint will process ICB Pricing requests upon receipt from the CLEC. Sprint will provide CLEC a price quote within thirty (30) business days from the receipt of the request. Price quote intervals may vary depending upon the complexity of the request but shall not exceed thirty (30) business days from the receipt of the request.

#### **5. NETWORK INTERFACE DEVICE**

- 5.1. Sprint will offer unbundled access to the network interface device element (NID). The NID is defined as any means of interconnection of end-user customer premises wiring to an incumbent LECs distribution plant, such as a cross connect device used for that purpose. This includes all features, functions, and capabilities of the facilities used to connect the loop to end-user customer premises wiring, regardless of the specific mechanical design.
- 5.2. The function of the NID is to establish the network demarcation point between a LEC (ILEC/CLEC) and its subscriber. The NID provides a protective ground connection, protection against lightning and other high voltage surges and is capable of terminating cables such as twisted pair cable.
- 5.3. CLEC may connect its NID to Sprint's NID; may connect an unbundled loop to its NID; or may connect its own Loop to Sprint's NID. Sprint will provide one NID termination of each loop. If additional NID terminations are required, CLEC

may request them pursuant to the process detailed in Section 43 herein.

- 5.4. Sprint will provide CLEC with information that will enable their technician to locate end user inside wiring at NIDs terminating multiple subscribers. Sprint will dispatch a technician and tag the wiring at the CLEC's request. In such cases the charges specified in Table One will apply.
- 5.5. Sprint will not provide specialized (Sprint non-standard) NIDS.
- 5.6. The Sprint NID shall provide a clean, accessible point of connection for the inside wiring and for the distribution media and/or cross connect to CLEC's NID and shall maintain a connection to ground that meets applicable industry standards. Each Party shall ground its NID independently of the other party's NID.
- 5.7. When requested, Sprint will provide NIDs separately from loops for a separate price as shown in Attachment 1. A NID will be provided with each unbundled loop and is included in the loop pricing shown in Attachment 1.

## **6. LOOP**

- 6.1. Sprint will provide CLEC access to Local Loops as defined in Part A including Copper Loops, Hybrid Loops, FTTH Loops, DS1 Loops, DS3 Loops, and Dark Fiber Loops. The following section includes the terms and conditions for Copper Loops, Hybrid Loops, FTTH Loops, DS1 Loops and DS3 Loops. Terms and conditions for the provision of Dark Fiber Loops are set forth in Section 16 of this Agreement. Terms and conditions for making any network modifications resulting from CLEC's request for Local Loops is contained in Section 18.
- 6.2. At CLEC's request, and if technically feasible, Sprint will test and report trouble on conditioned loops for all of the line's features, functions, and capabilities, and will not restrict its testing to voice-transmission only. Testing shall include Basic Testing and Cooperative Testing. Basic Testing shall include simple metallic measurements only, performed by accessing the loop through the voice switch.
  - 6.2.1. Basic Testing does not include cooperative efforts that require Sprint's technician to work jointly with CLEC's staff ("Cooperative Testing").
  - 6.2.2. Cooperative testing will be provided by Sprint at CLEC's expense. Sprint technicians will try to contact CLEC's representative at the conclusion of installation. If the CLEC does not respond within 3 minutes, Sprint may, in its sole discretion, abandon the test and CLEC will be charged for the test.
  - 6.2.3. Sprint will charge CLEC at the rates set out on Table One, when the location of the trouble on a CLEC-reported ticket is determined to be in CLEC's network or on the CLEC end user's side of the Demarcation Point.
- 6.3. Analog Loop Capabilities

- 6.3.1. Analog loops facilitate the transmission of voice grade signals in the 300-3000 Hz range and terminate in a 2-wire or 4-wire electrical interface at the CLEC's end user's premises. CLEC shall not install equipment on analog Loops that exceeds the specified bandwidth.
  - 6.3.2. Sprint will provide analog Loops as Copper Loops, Hybrid Loops, and where required, FTTH Loops, based on available facilities.
  - 6.3.3. Where necessary equipment is not available, CLEC requests will be processed through the ICB process. Sprint will provide routine network modifications as provided herein. CLEC agrees to reimburse Sprint for the actual cost of the modifications necessary to make the alternative arrangements available.
- 6.4. Digital Loops
- 6.4.1. Sprint will provide digital Loops on the basis of the service that will be provisioned over the Loop. Digital Loops are Copper Loops over which CLEC may deploy advanced services. Deployment of advanced services over digital loops by CLEC will be consistent with the terms and conditions contained in 6.6 and 6.7 of this section. On digital Loops, Sprint will only provide electrical continuity and line balance.
  - 6.4.2. Sprint shall employ industry accepted standards and practices to maximize binder group efficiency through analyzing the interference potential of each loop in a binder group, assigning an aggregate interference limit to the binder group, and then adding loops to the binder group until that limit is met. Disputes regarding the standards and practices employed in this regard shall be resolved through the Dispute Resolution Process set forth in Part B of this Agreement.
  - 6.4.3. Where necessary equipment is not available, CLEC requests will be processed through the ICB process. Sprint will provide routine network modifications as provided herein. CLEC agrees to reimburse Sprint for the actual cost of the modifications necessary to make the alternative arrangements available.
  - 6.4.4. Reverse ADSL Loops. If a CLEC's ADSL Transmission Unit (including those integrated into DSLAMs) is attached to Sprint's Network and if an ADSL Copper Loop should start at an outside location, and is looped through a host or remote, and then to the subscriber, the copper plant from the outside location to the Sprint host or remote central office must be a facility dedicated to ADSL transmission only and not part of Sprint's regular feeder or distribution plant.
- 6.5. Non-Standard Digital Loops
- 6.5.1. If CLEC requests a digital Loop, for which the effective loop length exceeds the xDSL standard of 18 kft (subject to gauge design used in an area), Sprint will only provide a Non-Standard Digital Loop. Additional

non-recurring charges for conditioning will apply. Non-Standard Digital Loops will not be subject to performance measurements or technical specifications, however, all of the SMC requirements set forth in Section 6.4 are applicable.

6.6. Adherence to National Industry Standards

- 6.6.1. In providing advanced service loop technology, Sprint shall allow CLEC to deploy underlying technology that does not significantly interfere with other advanced services and analog circuit-switched voice band transmissions.
- 6.6.2. Until long term industry standards and practices can be established, a particular technology shall be presumed acceptable for deployment under certain circumstances. Deployment that is consistent with at least one of the following circumstances presumes that such loop technology will not significantly degrade the performance of other advanced services or impair traditional analog circuit-switched voice band services:
  - 6.6.2.1. Complies with existing industry standards, including an industry-standard PSD mask, as well as modulation schemes and electrical characteristics;
  - 6.6.2.2. Is approved by an industry standards body, the FCC, or any state commission or;
  - 6.6.2.3. Has been successfully deployed by any CLEC without significantly degrading the performance of other services.
  - 6.6.2.4. Where CLEC seeks to establish that deployment of a technology falls within the presumption of acceptability under paragraph 6.6.2.3, the burden is on CLEC to demonstrate to the Commission that its proposed deployment meets the threshold for a presumption of acceptability and will not, in fact, significantly degrade the performance of other advanced services or traditional voice band services.
- 6.6.3. If a deployed technology significantly degrades other advanced services, the affected Party will notify the interfering party and give them a reasonable opportunity to correct the problem. The interfering Party will immediately stop any new deployment until the problem is resolved to mitigate disruption of other carrier services. If the affected parties are unable to resolve the problem, they will present factual evidence to the Commission for review and determination. If the Commission determines that the deployed technology is the cause of the interference, the deploying party will remedy the problem by reducing the number of existing customers utilizing the technology or by migrating them to another technology that does not disturb.

- 6.6.4. When the only degraded service itself is a known disturber and the newly deployed technology is presumed acceptable pursuant to Section 6.6.2, the degraded service shall not prevail against the newly deployed technology.
- 6.6.5. If Sprint denies a request by CLEC to deploy a technology, it will provide detailed, specific information providing the reasons for the rejection.
- 6.6.6. Parties agree to abide by national standards as developed by ANSI, i.e., Committee T1E1.4 group defining standards for loop technology. At the time the deployed technology is standardized by ANSI or the recognized standards body, the CLEC will upgrade its equipment to the adopted standard within sixty (60) Days of the standard being adopted.
- 6.6.7. CLEC shall meet the power spectral density requirement given in the respective technical references listed below:
  - 6.6.7.1. For Basic Rate ISDN: Telcordia TR-NWT-000393 Generic Requirements for ISDN Basic Access Digital Subscriber Lines.
  - 6.6.7.2. For HDSL installations: Telcordia TA-NWT-001210 Generic Requirements for High-Bit-Rate Digital Subscriber Lines. Some fractional T1 derived products operating at 768 kbps may use the same standard.
  - 6.6.7.3. For ADSL: ANSI T1.413-1998 (Issue 2 and subsequent revisions) Asymmetrical Digital Subscriber Line (ADSL) Metallic Interface.
  - 6.6.7.4. As an alternative to Section 6.6.7.1 CLEC may meet the requirements given in ANSI document T1E1.4/2000-002R2 dated May 1, 2000. "Working Draft of Spectrum Management Standard", and subsequent revisions of this document.
- 6.7. Information to be Provided for Deployment of Advanced Services.
  - 6.7.1. Upon request, Sprint shall provide to CLEC:
    - 6.7.1.1. information with respect to the spectrum management procedures and policies that Sprint uses in determining which services can be deployed;
    - 6.7.1.2. information with respect to the rejection of CLEC's provision of advanced services, together with the specific reason for the rejection; and
    - 6.7.1.3. information with respect to the number of loops using advanced services technology within the binder and type of technology deployed on those loops.
  - 6.7.2. In connection with the provision of advanced services, CLEC shall provide to Sprint the following information on the type of technology that

CLEC seeks to deploy where CLEC asserts that the technology it seeks to deploy fits within a generic Power Spectral Density (PSD) mask:

- 6.7.2.1. information in writing (via the service order) regarding the Spectrum Management Class (SMC), as defined in the T1E1.4/2000-002R2 Draft, of the desired loop so that the loop and/or binder group may be engineered to meet the appropriate spectrum compatibility requirements;
  - 6.7.2.2. the SMC (i.e. PSD mask) of the service it seeks to deploy, at the time of ordering and if CLEC requires a change in the SMC of a particular loop, CLEC shall notify Sprint in writing of the requested change in SMC (via a service order);
  - 6.7.2.3. to the extent not previously provided CLEC must disclose to Sprint every SMC that the CLEC has implemented on Sprint's facilities to permit effective Spectrum Management.
- 6.8. Hybrid Loops. Sprint will provide CLEC access to Hybrid Loops for the provision of broadband and narrowband services as provided below. Sprint is not required to provide unbundled access to the packet switched features, functions, and capabilities of its Hybrid Loops.
- 6.8.1. When CLEC requests access to a Hybrid Loop for the provision of broadband service, Sprint will provide CLEC, on an unbundled basis, with non-discriminatory access to the time division multiplexing features, functions, and capabilities of that Hybrid Loop, including DS1 and DS3 capacity, to the extent the Commission or FCC has determined that impairment exists, to establish a transmission path between Sprint's Central Office and the CLEC's end-user's premises.
  - 6.8.2. When CLEC requests access to a Hybrid Loop for the provision of narrowband services, Sprint will
    - 6.8.2.1. Provide non-discriminatory unbundled access to the entire Hybrid Loop capable of providing voice-grade service (*i.e.* equivalent to DS0 capacity) using time division multiplexing, or
    - 6.8.2.2. Provide non-discriminatory unbundled access to a spare Copper Loop serving that end-user.
- 6.9. Fiber-to-the-home Loop (FTTH Loop)
- 6.9.1. New builds. Sprint will not provide non-discriminatory access to FTTH Loop on an unbundled basis when Sprint has deployed a FTTH Loop to an end-user's customer premises that was not previously served by any loop facility.
  - 6.9.2. Overbuilds. Sprint will not provide non-discriminatory access to FTTH

Loop on an unbundled basis when Sprint has deployed a FTTH Loop parallel to, or in replacement of, an existing loop facility, except that:

- 6.9.2.1. Sprint will maintain the existing Copper Loop connected to a particular customer premises after deploying FTTH Loop and provide non-discriminatory access to the Copper Loop on an unbundled basis unless Sprint has retired the Copper Loop as set forth below.
  - 6.9.2.2. If Sprint deploys FTTH Loop and maintains the existing Copper Loop, Sprint will restore the Copper Loop to serviceable condition upon request.
  - 6.9.2.3. If Sprint deploys FTTH Loop and retires the existing Copper Loop, Sprint will provide non-discriminatory access to a 64 kilobits per second transmission path capable of voice grade service over the FTTH Loop.
  - 6.9.2.4. Prior to retiring Copper Loop Sprint will comply with the notice requirements set forth in 251(c)(5) of the Act, Sections 51.325 through 51.335 of the Code of Federal Regulations and applicable Commission requirements, if any.
- 6.10. DS1 Loops. Sprint will provide DS1 Loops except where the Commission or FCC has determined that requesting telecommunications carriers are not impaired without access to unbundled DS1 Loops at a specific end-user location. For DS1 Loops that are operational on the date the Commission or FCC makes a finding of no impairment, CLEC will transition the DS1 Loops to another service within a time frame established by the Commission or agreed to by the Parties.
- 6.11. DS3 Loops. Sprint will provide DS3 Loops except where the Commission or FCC has determined that requesting telecommunications carriers are not impaired without access to unbundled DS3 Loops at a specific customer location, up to a maximum of two unbundled DS3 Loops for any single customer location where DS3 Loops are available as unbundled Loops. For DS3 Loops that are operational on the date the Commission or FCC makes a finding of no impairment, CLEC will transition the DS3 Loops to another service within a time frame established by the Commission or agreed to by the Parties.
- 6.12. Dark Fiber Loops. Sprint will provide CLEC Dark Fiber Loops on an unbundled basis except where the Commission or FCC has determined that requesting Telecommunication Carriers are not impaired without access to a Dark Fiber Loop to a specific customer location. Specific terms and conditions for providing Dark Fiber Loops are contained in this Part of this Agreement.
- 6.13. Tag and Label. At CLEC's request, Sprint will tag and label unbundled loops at the Network Interface Device (NID). Tag and label may be ordered simultaneously with the ordering of the Loop or as a separate service subsequent to the ordering of the Loop.



- 6.13.1. Sprint will include the following information on the label: order number, due date, CLEC name, and the circuit number.
- 6.13.2. Tag and Label is available on the following types of Loops: 2- and 4-wire analog Loops, 2- and 4-wire xDSL capable Loops, 2- and 4-wire digital Loops, and DS1 4-wire Loops.
- 6.13.3. CLEC must specify on the order form whether each Loop should be tagged and labeled.
- 6.13.4. The rates for Loop tag and label and related services are set forth on Table One. A trip charge may be billed in addition to the Tag and Label charges.

## **7. SUBLOOPS**

- 7.1. Sprint will offer unbundled access to copper subloops and subloops for access to multiunit premises wiring. Sprint will consider all requests for access to subloops through the ICB process due to the wide variety of interconnections available and the lack of standards. A written response will be provided to CLEC covering the interconnection time intervals, prices and other information based on the ICB process as set forth in this Agreement.
- 7.2. Copper Subloops. Sprint will make available access to copper subloops on an unbundled basis. A copper subloop is comprised entirely of copper wire or copper cable that acts as a transmission facility between any accessible terminal in Sprint's outside plant, including inside wire owned or controlled by Sprint, and the end-user premises. A copper subloop can also include intermediate devices, such as repeaters, used to establish the transmission path. Copper subloops can be used by CLEC to provide voice-grade services as well as digital subscriber line services. Access to copper subloops is subject to the collocation provisions of this Agreement. Copper subloop consists of the distribution portion of the copper loop. Sprint is not obligated to offer feeder loop plant as a stand-alone UNE.
  - 7.2.1. An accessible terminal is any point on the loop where technicians can access a copper wire within the cable without removing a splice case. Such points include, but are not limited to, a pole or pedestal, the serving area interface, the network interface device, the minimum point of entry, any remote terminal, and the feeder/distribution interface.
- 7.3. Multiunit premises wiring. Sprint will make available to CLEC access to subloops for access to multiunit premises wiring on an unbundled basis. The subloop for access to multiunit premises wiring is defined as any portion of the loop that it is technically feasible to access at a terminal in the incumbent LEC's outside plant at or near a multiunit premises, including inside wire. Inside wire is wire owned or controlled by Sprint at a multiunit customer premises between the minimum point of entry and the point of demarcation.
  - 7.3.1. An accessible terminal is any point in Sprint's network where a technician

can access the wire or fiber within the cable (e.g., via screw posts, terminals, patch panels) without removing a splice case to reach the wire or fiber within to access the wiring in the multiunit premises. Such points include, but are not limited to, a pole or pedestal, the NID, the minimum point of entry, the single point of interconnection, and the feeder/distribution interface.

- 7.3.2. Upon request for interconnection at a multiunit premises where Sprint owns, controls, or leases wiring, Sprint will provide a single point of interconnection that is suitable for use by multiple carriers. If the Parties do not agree on appropriate terms, conditions and rates for the single point of interconnection to multiunit premises wiring either Party may invoke the Dispute Resolution provisions of this Agreement.
- 7.4. Sprint will not provide or maintain inside wire in situations where it determines there are health or safety concerns in doing so.
- 7.5. Deployment of advanced services by CLEC over subloops will be in accordance with the terms included in 6.7 and 6.8 of this section.
- 7.6. Reverse ADSL Loops. If a CLEC's ADSL Transmission Unit (including those integrated into DSLAMs) is attached to Sprint's Network and if an ADSL Copper Loop should start at an outside location, and is looped through a host or remote, and then to the subscriber, the copper plant from the outside location to the Sprint host or remote central office must be a facility dedicated to ADSL transmission only and not part of Sprint's regular feeder or distribution plant.

## **8. LOCAL CIRCUIT SWITCHING**

- 8.1. Sprint will offer access to unbundled Local Circuit Switching, including Tandem Switching, except to the extent the Commission or FCC determines that Local Circuit Switching is not required to be unbundled. Where Sprint is required to offer unbundled Local Circuit Switching Sprint will offer, in conjunction with Local Circuit Switching, Tandems Switching, Shared Transport, and access to signaling and call related databases as set forth in this Agreement.
- 8.2. Local Circuit Switching is the Network Element that provides the functionality required to connect the appropriate lines or trunks wired to the Main Distributing Frame (MDF) or Digital Cross Connect (DSX) panel to a desired line or trunk. Such functionality shall include all of the features, functions, and capabilities that the underlying Sprint switch providing such Local Circuit Switching function provides for Sprint's own services. Functionality may include, but is not limited to:
  - 8.2.1. line signaling and signaling software;
  - 8.2.2. digit reception;
  - 8.2.3. dialed number translations;

- 8.2.4. call screening;
  - 8.2.5. routing;
  - 8.2.6. recording;
  - 8.2.7. call supervision;
  - 8.2.8. dial tone;
  - 8.2.9. switching;
  - 8.2.10. telephone number provisioning;
  - 8.2.11. announcements;
  - 8.2.12. calling features and capabilities (including call processing);
  - 8.2.13. Centrex, or Centrex like services;
  - 8.2.14. Automatic Call Distributor (ACD);
  - 8.2.15. CLEC presubscription (e.g., long distance Carrier, intraLATA toll), Carrier Identification Code (CIC) portability capabilities;
  - 8.2.16. testing and other operational features inherent to the switch; and,
  - 8.2.17. switch software.
- 8.3. Until the Commission or FCC establishes a maximum number of DS0 loops that a requesting Telecommunications Carrier can serve for each geographic market through unbundled switching, Sprint is not required to provide Local Circuit Switching under this Section 8 for switching used to serve end users with four or more lines in access density zone 1, in the top 50 Metropolitan Statistical Areas, or 24 or more lines to a single CLEC end user location in all other areas. The Parties agree to abide by the cutoff established by the Commission or FCC and will agree to an implementation plan, if the maximum is less than the limitation in this section and/or applied to additional geographic markets, within thirty (30) days of the Commission's or FCC's determination.
- 8.4. If the Commission or FCC determines that Sprint is not required to provide Local Circuit Switching for end-users served using DS0 capacity loops, CLEC must commit to an implementation plan to migrate its embedded unbundled local circuit switching customers within two months of the Commission's or FCC's determination. CLEC may no longer obtain access to unbundled local circuit switching five (5) months after the Commission or FCC determination. CLEC will submit orders to migrate its embedded base of end-user customers off of the unbundled circuit switching element in accordance with the following timetable measured from the date of the Commission or FCC determination:
- 8.4.1. CLEC will submit orders for one-third (1/3) of all its unbundled local circuit switching end-user customers within thirteen (13) months of the

date of the Commission or FCC determination.

- 8.4.2. CLEC will submit orders for one-half (1/2) of its remaining unbundled local circuit switching end-user customers within twenty (20) months of the date of the Commission or FCC determination.
- 8.4.3. CLEC will submit orders for its remaining unbundled local circuit switching end-user customers within twenty-seven (27) months of the date of the Commission or FCC determination.
- 8.5. Where the Commission determines that impairment would be cured by transitional access to Local Circuit Switching on an unbundled basis, Sprint will provide Local Switching on an unbundled basis for ninety (90) days or other time frame established by the Commission or FCC. CLEC will submit an order to migrate each end-user off of unbundled Local Switching within ninety (90) days, or other or applicable time frame, of the provision of the Local Circuit Switching.
- 8.6. CLEC will migrate end-users served using Local Circuit Switching and DS1 or above capacity loops to an alternative arrangement within one-hundred and eighty (180) days of October 2, 2003, unless the Commission files a petition with the FCC to rebut the national determination of no impairment. If the FCC denies the petition, CLEC will migrate end-users served using Local Circuit Switching and DS1 or above capacity loops to an alternative arrangement within ninety (90) days of the FCC's determination.
- 8.7. Sprint will provide customized routing at CLEC's request where technically feasible. Customized routing enables the CLEC to route their customer's traffic differently than normally provided by Sprint. For example, customized routing will allow the CLEC to route their customer's operator handled traffic to a different provider. CLEC requests will be processed through the ICB process. Pricing will be on a time and materials basis.
- 8.8. Technical Requirements
  - 8.8.1. Sprint shall provide its standard recorded announcements (as designated by CLEC) and call progress tones to alert callers of call progress and disposition. CLEC will use the BFR process for unique announcements.
  - 8.8.2. Sprint shall change a subscriber from Sprint's Telecommunications Services to CLEC's Telecommunications Services without loss of feature functionality unless expressly agreed otherwise by CLEC.
  - 8.8.3. Sprint shall control congestion points such as mass calling events, and network routing abnormalities, using capabilities such as Automatic Call Gapping, Automatic Congestion Control, and Network Routing Overflow. Application of such control shall be competitively neutral and not favor any user of unbundled switching or Sprint.
  - 8.8.4. Sprint shall offer all Local Switching features that are technically feasible and provide feature offerings at Parity with those provided by

Sprint to itself or any other party.

- 8.9. Interface Requirements. Sprint shall provide the following interfaces:
  - 8.9.1. Standard Tip/Ring interface including loopstart or groundstart, on-hook signaling (e.g., for calling number, calling name and message waiting lamp);
  - 8.9.2. Coin phone signaling;
  - 8.9.3. Basic and Primary Rate Interface ISDN adhering to ANSI standards Q.931, Q.932 and appropriate Telcordia Technical Requirements, except Sprint will not provide Primary Rate where the Commission determines, as provided in Section 8.6, that Local Circuit Switching to provide DS1 or above capacity loops is not required;
  - 8.9.4. Two-wire analog interface to PBX to include reverse battery, E&M, wink start and DID;
  - 8.9.5. Four-wire analog interface to PBX to include reverse battery, E&M, wink start and DID; and
  - 8.9.6. Four-wire DS1 interface to PBX or subscriber provided equipment (e.g., computers and voice response systems), except where the Commission determines, as provided in Section 8.6, that Local Circuit Switching to provide DS1 or above capacity loops is not required.
- 8.10. Sprint shall provide access to interfaces, including but not limited to:
  - 8.10.1. SS7 Signaling Network, Dial Pulse or Multi-Frequency trunking if requested by CLEC;
  - 8.10.2. Interface to CLEC operator services systems or Operator Services through appropriate trunk interconnections for the system; and
  - 8.10.3. Interface to CLEC directory assistance services through the CLEC switched network or to Directory Services through the appropriate trunk interconnections for the system; and 950 access or other CLEC required access to interexchange carriers as requested through appropriate trunk interfaces.

## 9. TANDEM SWITCHING

- 9.1. Sprint will offer unbundled Tandem Switching in conjunction with unbundled Local Circuit Switching only where the Commission or FCC determines that unbundled Local Circuit Switching is required to be provided. Where Sprint is no longer required to provide Tandem Switching CLEC will agree to a time line to transition from unbundled Tandem Switching within thirty (30) days of the Commission or FCC finding.
- 9.2. Tandem Switching is the function that establishes a communications path between

two switching offices (connecting trunks to trunks) through a third switching office (the tandem switch). A host/remote end office configuration is not a Tandem Switching arrangement. Sprint will provide CLEC access to the same shared transport facilities connected to the Tandem Switch that Sprint provides to its end users.

### **9.3. Technical Requirements**

- 9.3.1. Tandem Switching shall preserve CLASS/LASS features and Caller ID as traffic is processed.
- 9.3.2. To the extent technically feasible, Tandem Switching shall record billable events for distribution to the billing center designated by CLEC.
- 9.3.3. Tandem Switching shall control congestion using capabilities such as Automatic Congestion Control and Network Routing Overflow. Congestion control provided or imposed on CLEC traffic shall be at Parity with controls being provided or imposed on Sprint traffic (e.g., Sprint shall not block CLEC traffic and leave its traffic unaffected or less affected).
- 9.3.4. The Local Switching and Tandem Switching functions may be combined in an office. If this is done, both Local Switching and Tandem Switching shall provide all of the functionality required of each of those Network Elements in this Agreement.
- 9.3.5. Tandem Switching shall provide interconnection to the E911 PSAP where the underlying Tandem is acting as the E911 Tandem.

## **10. SHARED TRANSPORT**

- 10.1. Sprint will offer access to shared transport in conjunction with unbundled local switching only where the Commission or FCC determines that unbundled local circuit switching is required to be provided. Shared transport is defined as transmission facilities shared by more than one carrier, including Sprint, between end office switches, between end office switches and tandem switches, and between tandem switches in the Sprint network.
  - 10.1.1. Sprint may provide Shared Transport over DS0, DS1, DS3, STS1 or higher transmission bit rate circuits, at Sprint's discretion.
  - 10.1.2. Sprint shall be responsible for the engineering, provisioning, and maintenance of the underlying Sprint equipment and facilities that are used to provide Shared Transport.

## **11. DEDICATED TRANSPORT**

- 11.1. Sprint will offer unbundled access to DS1 dedicated interoffice transmission facilities, or transport, except where the Commission or FCC has determined that requesting telecommunications carriers are not impaired without access to

dedicated DS1 transport along a particular route. Dedicated transport is limited to the use of a single carrier and does not require switching at a tandem. Dedicated DS1 interoffice transmission facilities are defined as Sprint transmission facilities dedicated to a particular customer or carrier that provide Telecommunications Services between wire centers or switches owned by Sprint and that have a total digital signal speed of 1.544 megabytes per second. For DS1 Transport that is operational on the date the Commission or FCC makes a finding of no impairment, CLEC will transition the DS1 Transport to another service within a time frame established by the Commission or the Parties will negotiate a time frame within 30 days.

- 11.2. Sprint will offer unbundled access to DS3 dedicated interoffice transmission facilities, or transport, except where the Commission or FCC has determined that requesting telecommunications carriers are not impaired without access to dedicated DS3 transport along a particular route. Dedicated transport is limited to the use of a single carrier and does not require switching at a tandem. Dedicated DS3 interoffice transmission facilities are defined as Sprint transmission facilities dedicated to a particular customer or carrier that provide Telecommunications Services between wire centers or switches owned by Sprint and that have a total digital signal speed of 44.736 megabytes per second. CLEC may only obtain up to a maximum of twelve (12) unbundled dedicated DS3 circuits for any single route for which unbundled dedicated DS3 transport is available. For DS3 Transport that is operational on the date the Commission or FCC makes a finding of no impairment, CLEC will transition the DS3 Transport to another service within a time frame established by the Commission or the Parties will negotiate a time frame within 30 days.

- 11.3. Sprint will provide nondiscriminatory access to Dark Fiber transport on an unbundled basis pursuant to this Agreement, except where the Commission or FCC has found that requesting Telecommunications Carriers are not impaired without access to unbundled Dark Fiber transport along a particular route. Dark fiber transport consists of unactivated optical interoffice transmission facilities.

11.3.1. Technical Requirements for DS1 and DS3 Dedicated Transport

- 11.3.1.1. Where technologically feasible and available, Sprint shall offer Dedicated Transport consistent with the underlying technology as follows:

11.3.1.1.1. When Sprint provides Dedicated Transport, the entire designated transmission circuit (e.g., DS-1, DS-3) shall be dedicated to CLEC designated traffic.

11.3.1.1.2. Where Sprint has technology available, Sprint shall provide Dedicated Transport using currently available technologies including, but not limited to, DS1 and DS3 transport systems,

SONET (or SDS) Bi-directional Line Switched Rings, SONET (or SDH) Unidirectional Path Switched Rings, and SONET (or SDS) point-to-point transport systems (including linear add-drop systems), at all available transmission bit rates.

## **12. SIGNALING SYSTEMS**

- 12.1. Sprint will offer unbundled access to Sprint's signaling network in conjunction with unbundled Circuit Switching where CLEC purchases unbundled Local Circuit Switching for a particular end user, to the extent that Local Circuit Switching is required to be unbundled by the Commission or FCC.
- 12.2. Sprint will offer signaling using the same signaling transfer points (STPs) and signaling links which Sprint uses to provide signaling to its own end users.
- 12.3. Terms and conditions for allowing the CLEC to connect its switch with Sprint's signaling system are included in Section 20 of this Agreement.

## **13. CALL-RELATED DATABASES WITH UNE SWITCHING**

- 13.1. Sprint will include unbundled access to call-related databases, including, but not limited to, the Line Information database (LIDB), Toll Free Calling database, Number Portability database, Calling Name (CNAM) database, Advanced Intelligent Network (AIN) databases, and the AIN platform and architecture in the same manner, and via the same signaling links, as Sprint, where CLEC purchases unbundled Local Circuit Switching for a particular end user, to the extent that that Local Circuit Switching is required to be unbundled by the Commission or FCC. Sprint reserves the right to decline to offer unbundled access to certain AIN software that qualifies for proprietary treatment.
- 13.2. The terms and conditions for allowing CLEC to connect its switch or signaling system to Sprint's call-related databases are included in Section 20 of this Agreement.
- 13.3. Sprint will provide unbundled access to call-related databases, including, but not limited to, the Line Information database (LIDB), Toll Free Calling database, Number Portability database, Calling Name (CNAM) database, Advanced Intelligent Network (AIN) databases, and the AIN platform and architecture in the same manner, and via the same signaling links, as Sprint, where CLEC purchases unbundled Local Circuit Switching for a particular end user at no additional charge.
- 13.4. Line Information Database (LIDB)
  - 13.4.1. The LIDB is a transaction-oriented database that contains records associated with subscribers' Line Numbers and Special Billing Numbers. LIDB accepts queries in conjunction with unbundled local



switching and provides appropriate responses. The query originator need not be the owner of LIDB data. LIDB queries include functions such as screening billed numbers to determine if the end user associated with the number has requested deny Collect or deny Third Number Billing call restrictions or whether a telephone line number based non-proprietary calling card has a valid Personal Identification Number (PIN).

- 13.4.1.1. Sprint shall process CLEC's subscribers' records in LIDB at Parity with Sprint subscriber records.
- 13.4.1.2. Sprint shall perform backup and recovery of all of CLEC's data in LIDB at Parity with backup and recovery of all other records in the LIDB, including sending to LIDB all changes made since the date of the most recent backup copy.
- 13.4.1.3. Sprint will provide storage of CLEC end user's numbers in the Line Information database (LIDB), where CLEC purchases unbundled local circuit switching for a particular end user, at no additional charge.

#### 13.5. Calling Name Database (CNAM).

- 13.5.1. The CNAM database is a transaction-oriented database accessible via the CCS network. It contains name records associated with subscribers' Line Numbers and Names. CNAM accepts queries from other Network Elements and provides the calling name. The query originator need not be the owner of CNAM data. CNAM provides the calling parties' name to be delivered and displayed to the terminating caller with Caller ID with Name.
- 13.5.2. Sprint will store CLEC Caller Names in the Sprint CNAM Database at parity with how Sprint stores its own end users information. Sprint shall provide access to Sprint CNAM database for purpose of receiving and responding to CNAM Service Queries in the same manner, and via the same signaling links, as Sprint where CLEC purchases unbundled local circuit switching, to the extent that that local circuit switching is required to be unbundled by the Commission or FCC.
- 13.5.3. Sprint will provide storage of CLEC end user's numbers in the CNAM Database and access to Sprint CNAM database for purpose of receiving and responding to CNAM Service Queries, where CLEC purchases unbundled local circuit switching for a particular end user, at no additional charge.

#### 13.6. Toll Free Number Database

- 13.6.1. The Toll Free Number Database provides functionality necessary for toll free (e.g., 800 and 888) number services by providing routing

information and additional vertical features (i.e., time of day routing by location, by carrier and routing to multiple geographic locations) during call setup in response to queries from STPs. The Toll Free records stored in Sprint's database are downloaded from the SMS/800. Sprint shall provide the Toll Free Number Database in accordance with the following:

- 13.6.1.1. Sprint shall make the Sprint Toll Free Number Database available for CLEC to query in the same manner, and via the same signaling links, as Sprint where CLEC purchases unbundled local circuit switching, to the extent that that local circuit switching is required to be unbundled by the Commission or FCC.
- 13.6.1.2. The Toll Free Number Database shall return CLEC identification and, where applicable, the queried toll free number, translated numbers and instructions as it would in response to a query from a Sprint switch.
- 13.6.1.3. Sprint will provide access to its Toll Free Number Database for purpose of receiving and responding to queries, where CLEC purchases unbundled local circuit switching for a particular end user, at no additional charge.

#### 13.7. Local Number Portability Local Routing Query Service

- 13.7.1. TCAP messages originated by CLEC's SSPs and received by Sprint's database will be provided a response upon completion of a database lookup to determine the LRN.
- 13.7.2. Sprint will provide the LNP Query Service in the same manner, and via the same signaling links, as Sprint where CLEC purchases unbundled local circuit switching, to the extent that that local circuit switching is required to be unbundled by the Commission or FCC.
- 13.7.3. Sprint will provide access to the LNP Query Service for purpose of receiving and responding to queries, where CLEC purchases unbundled local circuit switching for a particular end user, at no additional charge.

### 14. OPERATIONS SUPPORT SYSTEMS (OSS)

- 14.1. Sprint will offer unbundled access to Sprint's operations support systems to the extent technically feasible in a non-discriminatory manner at Parity. OSS consists of pre-ordering, ordering, provisioning, maintenance and repair, and billing functions supported by Sprint's databases and information. The OSS element includes access to all loop qualification information contained in Sprint's databases or other records, including information on whether a particular loop is capable of providing advanced services.

## **15. LOOP MAKE-UP INFORMATION**

- 15.1. Sprint shall make available Loop Make-Up Information in a non-discriminatory manner at Parity with the data and access it gives itself and other CLECs, including affiliates. The charges for Loop Make-Up Information are set forth in Table One to this Agreement.
- 15.2. Information provided to the CLEC will not be filtered or digested in a manner that would affect the CLEC's ability to qualify the loop for advanced services.
- 15.3. Sprint shall provide Loop Make-Up Information based on the individual telephone number or address of an end-user in a particular wire center or NXX code. Loop Make-Up Information requests will be rejected if the service address is not found within existing serving address information, if the telephone number provided is not a working number or if the POI identified is not a POI where the requesting CLEC connects to the Sprint LTD network.
- 15.4. Errors identified in validation of the Loop Make-Up Information inquiry order will be returned to the CLEC.
- 15.5. Sprint may provide the requested Loop Make-Up Information to the CLECs in whatever manner Sprint would provide to their own internal personnel, without jeopardizing the integrity of proprietary information (i.e. - fax, intranet inquiry, document delivery, etc.). If the data is provided via fax, CLEC must provide a unique fax number used solely for the receipt of Loop Make-Up Information.
- 15.6. If CLEC does not order Loop Make-Up Information prior to placing an order for a loop for the purpose of provisioning of an advanced service and the advanced service cannot be successfully implemented on that loop, CLEC agrees that:
  - 15.6.1. CLEC will be charged a Trouble Isolation Charge to determine the cause of the failure;
  - 15.6.2. If Sprint undertakes Loop Make-Up Information activity to determine the reason for such failure, CLEC will be charged a Loop Make-Up Information Charge; and
  - 15.6.3. If Sprint undertakes Conditioning activity for a particular loop to provide for the successful installation of advanced services, CLEC will pay applicable conditioning charges as set forth in Table One pursuant to Section 6 of this Agreement.

## **16. DARK FIBER**

### **16.1. General Rules and Definition**

- 16.1.1. Dark Fiber is an optical transmission facility without attached multiplexing, aggregation or other electronics. Dark Fiber is unactivated fiber optic cable, deployed by Sprint, that has not been activated through

connections to optronics that light it, and thereby render it capable of carrying communications.

- 16.1.2. Sprint will unbundle Dark Fiber for the Dedicated Transport, Loop and Sub-loop network elements in accordance with the FCC's Triennial Review Order (CC Docket No. 96-98) and as set forth in this Agreement, except where the Commission or FCC has determined that a requesting Telecommunications Carrier is not impaired without such access. Dark fiber is not a separate network element, but a subset of Dedicated Transport and Loop network elements. In addition to the terms in this section, any rules, guidelines and Agreement provisions for these network elements, including accessibility, will apply to Dark Fiber.

#### 16.2. Fiber Availability

- 16.2.1. Spare fibers in a sheath are not considered available if Sprint has plans to put the fiber in use within the current year or the following year.
- 16.2.2. Sprint will also maintain fibers to facilitate maintenance, rearrangements and changes. Sprint will generally reserve 8% of fibers in a sheath for maintenance, subject to a minimum of four (4) fibers and a maximum of twelve (12) fibers.
- 16.2.3. Dark fiber requests will be handled on a first come, first served basis, based on the date the Dark Fiber Application (DFA) is received.

#### 16.3. Interconnection Arrangements

- 16.3.1. Rules for gaining access to unbundled network elements apply to Dark Fiber. Virtual and physical collocation arrangements may be used by CLEC to locate the optical electronic equipment necessary to "light" leased Dark Fiber.
- 16.3.2. The CLEC that requests Dark Fiber must be able to connect to the Sprint fiber by means of fiber patch panel.
- 16.3.3. If fiber patch panels (FPPs) are not located within close enough proximity for a fiber patch cord, Sprint will purchase and install intraoffice cabling at the CLEC's expense. This process is outside the scope of this agreement.
- 16.3.4. Establishment of applicable fiber optic transmission equipment or intermediate repeaters needed to power the unbundled Dark Fiber in order to carry Telecommunications Services is the responsibility of the CLEC.

#### 16.4. Dark Fiber Application and Ordering Procedure

- 16.4.1. CLEC will submit a Dark Fiber Application (DFA) and application fee to request that Sprint determine the availability of Dark Fiber between

the CLEC-specified locations. See Table One for application fee amount.

16.4.2. Within twenty (20) business days of receipt of DFA, Sprint will provide CLEC with a response regarding fiber availability and price.

16.4.2.1. If Dark Fiber is not available, Sprint will notify CLEC of the DFA rejection.

16.4.2.2. CLEC will follow the Dispute Resolution Process outlined in Part B of this Agreement if CLEC wishes to contest the rejection.

16.4.3. If Dark Fiber is available, CLEC will notify Sprint of acceptance/rejection of Dark Fiber quote, via a firm order, within ten (10) business days of receipt of quote. Sprint will reserve the requested Dark Fiber for the CLEC during these ten (10) business days. If, however, CLEC does not submit a firm order by the tenth (10th) business day, the fiber will no longer be reserved.

16.4.4. After ten (10) business days of receipt of the price quote, if CLEC has not accepted, CLEC must submit another DFA and application fee.

16.4.5. The CLEC will submit a firm order for Dark Fiber via the local service request (LSR) or access service request (ASR), as appropriate.

16.4.6. By submitting the Dark Fiber firm order, the CLEC agrees to pay quoted monthly recurring and non-recurring charges. See Table One for monthly recurring and non-recurring charges.

16.4.7. Due Date. Sprint will provision Dark Fiber twenty (20) Business Days after it receives firm order from CLEC. Billing of the monthly recurring and non-recurring charges will begin upon completion of Dark Fiber order. Sprint will allow CLEC to extend due date for firm order completion up to sixty (60) business days from the date Sprint receives firm order from CLEC. This extended due date must be specified on the firm order.

16.4.7.1. Billing of the monthly recurring and non-recurring charges will begin on the due date of the Dark Fiber order completion unless:

16.4.7.1.1. CLEC cancels firm order before the established due date. If this occurs, CLEC agrees to reimburse Sprint for all costs incurred to date; or

16.4.7.1.2. a third party submits firm order for same Dark Fiber. If this occurs, CLEC must begin compensating Sprint for monthly recurring and non-recurring charges in order to reserve fiber,

once Sprint is able to provide Dark Fiber to CLEC.

**16.5. Maintenance and Testing**

- 16.5.1. Sprint is only responsible for maintaining the facilities that it owns.
- 16.5.2. Sprint will conduct an end-to-end test of Dark Fiber after receipt of the firm order.
- 16.5.3. For meet point arrangements, Sprint will conduct cooperative testing with another carrier at CLEC's request. Additional rates and charges will apply.
- 16.5.4. Sprint does not guarantee that the transmission characteristics of the Dark Fiber will remain unchanged over time.
- 16.5.5. Sprint is not responsible for determining whether the transmission characteristics of the Dark Fiber will accommodate the CLEC requirements.

**16.6. Rules for Take Back**

- 16.6.1. Sprint reserves the right to take back Dark Fiber to meet its carrier of last resort obligations.
- 16.6.2. Sprint will provide CLEC twelve (12) months written notice prior to taking back fiber.
- 16.6.3. If multiple CLECs have leased fiber within a single sheath, Sprint will take back the fiber that was the last to be leased.
- 16.6.4. Sprint will provide the CLEC with alternative transport arrangements when Sprint takes back working fiber.
- 16.6.5. The Dispute Resolution Procedures found in Part B of this Agreement will be followed if CLEC wishes to contest Sprint's decision to take back its leased fiber.

**17. VOICE UNE-P AND EEL**

**17.1. Combination of Network Elements**

- 17.1.1. CLEC may order Unbundled Network Elements either individually or in the combinations, including VOICE UNE-P and EEL as specifically set forth in this Section of the Agreement.
- 17.1.2. For the purpose of this section, wholesale services includes both services CLEC procures for resale pursuant to 251(c)(4) and exchange access service purchased from Sprint's access tariffs.

**17.2. General Terms and Conditions**

- 17.2.1. Sprint will allow CLEC to order each Unbundled Network Element individually in order to permit CLEC to combine such Network Elements with other Network Elements obtained from Sprint as provided for herein, or with network components provided by itself or by third parties to provide Telecommunications Services to its end users, provided that such combination is technically feasible and would not impair the ability of other carriers to obtain access to other unbundled network elements or to interconnect with Sprint's network or in combination with any other Network Elements that are currently combined in Sprint's Network. Upon request, Sprint will perform the functions necessary to combine UNEs, even if those elements are not ordinarily combined in Sprint's network, provided that such combination is technically feasible and would not impair the ability of other carriers to obtain access to other unbundled network elements or to interconnect with Sprint's network.
- 17.2.2. CLEC may Commingle an unbundled network element or combination of UNEs with wholesale services purchased from Sprint. Upon request, Sprint will perform the work necessary to Commingle such UNE or UNE combinations with wholesale services purchased from Sprint. Each component of the commingled facility, either UNE or wholesale service, will be billed at the UNE or wholesale service rate for that component, plus applicable non-recurring charges. Sprint will not ratchet price individual components; that is, Sprint will not reflect a combination of UNE and wholesale rates for the same component. Wholesale service rates will be per the appropriate tariff, including any applicable resale discounts pursuant to this Agreement. Sprint will provide CLEC access to VOICE UNE-P and EEL as provided in this Agreement. CLEC is not required to own or control any of its own local exchange facilities before it can purchase or use VOICE UNE-P or EEL to provide a telecommunications service under this Agreement. Any request by CLEC for Sprint to provide combined UNEs that are not otherwise specifically provided for under this Agreement will be made in accordance with the BFR process described in Section 3 and made available to CLEC upon implementation by Sprint of the necessary operational modifications.

- 17.2.3. The provisioning of VOICE UNE-P and EEL combinations is limited to existing facilities and Sprint is not obligated to construct additional facilities to accommodate any request by CLEC.
- 17.2.4. Sprint shall not be required provide VOICE UNE-P for CLEC where Sprint is not required to provide unbundled Local Circuit Switching pursuant to Section 8.3 of this Part E. Sprint may audit CLEC's UNE-P customer base in accordance with the audit provisions of Part B of this Agreement to ensure CLEC's adherence to the Exemption.
- 17.3. Specific Combinations and Pricing
  - 17.3.1. In order to facilitate the provisioning of VOICE UNE-P and EEL Sprint shall support the ordering and provisioning of these specific combinations as set forth below.
- 17.4. Sprint Offers the Following Combinations of Network Elements
  - 17.4.1. Voice Unbundled Network Element Platform (UNE-P). VOICE UNE-P is the combination of the NID, Loop, Local Circuit Switching, Shared Transport, and Local Tandem Switching network elements.
    - 17.4.1.1. Sprint will offer the combination of the NID, Loop, Local Circuit Switching, Local Switch Port, Shared Transport, and Local Tandem Switching (where Sprint is the provider of Shared Transport and Local Tandem Switching) unbundled network elements to provide VOICE UNE-P, where Sprint is required to provide unbundled local switching, at the applicable recurring charges and non-recurring charges as specified in Table One for VOICE UNE-P plus the applicable Service Order Charge. Sprint will also bill CLEC for applicable Usage Data Recording and Transmission Charges as indicated in Table One.
    - 17.4.1.2. Until such time as Sprint can bill the recurring charges for usage based VOICE UNE-P elements (Local Circuit Switching, Shared Transport, Local Tandem Switching), these charges will be billed to CLEC at the recurring flat rate charge reflected in Table One. Upon the implementation of the necessary operational modifications, Sprint will convert from billing CLEC based on this flat rated monthly charge to applicable usage based charges for the VOICE UNE-P elements.
    - 17.4.1.3. Reciprocal compensation for UNE-P Local Traffic and ISP-Bound Traffic that originates and terminates within the same switch shall be on a bill and keep basis.
    - 17.4.1.4. Sprint will provide originating and terminating access records to CLEC for access usage over UNE-P. CLEC will be



responsible for billing the respective originating and/or terminating access charges directly to the IXC.

- 17.4.1.5. Sprint will provide CLEC toll call records that will allow it to bill its end users for toll charges. Such record exchange will be in industry standard EMI format as the charges set forth in Table One. Any non-standard requested format would be handled through the BFR process as set forth in Section 3 of this Agreement.
- 17.4.2. EEL is the combination of the NID, Loop, and Dedicated Transport network elements.
  - 17.4.2.1. Sprint will offer the combination of unbundled loops with unbundled dedicated transport as described herein, where Sprint is required to provide unbundled dedicated transport and Local Loops, to provide EELs at the applicable recurring and non-recurring charges as specified in Table One for Loops, Dedicated Transport, and where applicable, Multiplexing. The applicable recurring and nonrecurring charges, including but not limited to cross connect charges and Service Order Charges. Sprint will cross-connect unbundled 2 or 4-wire analog or 2-wire digital Loops to unbundled voice grade/DS0, DS1, or DS3 Dedicated Transport facilities (DS0 dedicated transport is only available between Sprint central offices) for CLEC's provision of circuit switched telephone exchange service to CLEC's end users.
  - 17.4.2.2. Multiplexing shall be provided as necessary as part of Dedicated Transport.
  - 17.4.2.3. In order to obtain the following EELS, a requesting CLEC must provide certification that it satisfies the following service eligibility criteria for each circuit. CLEC must continue to be in compliance with the service eligibility criteria for as long as CLEC continues to receive the services in this section.
  - 17.4.2.4. EEL Combinations
    - 17.4.2.4.1. Unbundled DS1 Loop in combination with UNE DS1 Dedicated Transport.
    - 17.4.2.4.2. Unbundled DS1 Loop commingled with dedicated DS1 transport wholesale service (either special access or resale).

- 17.4.2.4.3. Unbundled DS1 Loop in combination with UNE DS3 Dedicated Transport.
- 17.4.2.4.4. Unbundled DS1 Loop commingled with dedicated DS3 transport wholesale service (either special access or resale).
- 17.4.2.4.5. Unbundled DS3 Loop in combination with UNE DS3 Dedicated Transport.
- 17.4.2.4.6. Unbundled DS3 Loop commingled with dedicated DS3 transport wholesale service (either special access or resale).
- 17.4.2.4.7. Unbundled DS1 Dedicated Transport commingled with DS1 channel termination.
- 17.4.2.4.8. Unbundled DS3 Dedicated Transport commingled with DS1 channel termination service.
- 17.4.2.4.9. Unbundled DS3 Dedicated Transport commingled with DS3 channel termination service.
- 17.4.2.5. EEL Eligibility Criteria
  - 17.4.2.5.1. CLEC must have a state certification to provide local voice service;
  - 17.4.2.5.2. Each DS1 circuit, each DS1 EEL, and each DS1-equivalent circuit on a DS3 EEL:
  - 17.4.2.5.3. Each circuit to be provided to each CLEC customer must be assigned one local number prior to the provision of service over the circuit;
  - 17.4.2.5.4. Each DS1-equivalent circuit on a DS3 EEL must have its own local number assignment, so that each DS3 has at least 28 local voice numbers assigned to it;
  - 17.4.2.5.5. Each circuit to be provided to each customer must provide 911 or E911 capability prior to the provision of service over the circuit;

- 17.4.2.5.6. Each circuit to be provided to each customer must terminate into a collocation governed by 251(c)(6) at a Sprint central office within the same LATA as the CLEC's customer's premises.
- 17.4.2.5.7. For each 24 DS1 EELs or other facilities having equivalent capacity, CLEC must maintain at least one active DS1 local service interconnection trunk and CLEC is required to transmit the calling party's number in connection with calls exchanged over each trunk. Where CLEC does not establish an interconnection arrangement with Sprint for the meaningful exchange of Local Traffic that flows in both directions, such interconnection arrangement shall not satisfy this criteria, and
- 17.4.2.5.8. Each circuit to be provided to each customer will be served by a switch capable of switching local voice traffic.
- 17.4.2.6. Sprint reserves the right, upon thirty (30) Days notice, to audit CLEC's compliance with the service eligibility criteria defined by the FCC and as set forth above. Sprint will hire and pay for an independent auditor to perform the audit. CLEC will reimburse Sprint if the audit report concludes that CLEC failed to comply with the service eligibility criteria. Sprint may request one audit in a calendar year. In the instance of non-compliance, CLEC shall true-up any difference in payments, convert the non-compliant circuit to the appropriate service and make accurate payments going forward. Should the independent auditor confirm CLEC's compliance with the service eligibility criteria for each DS1 or DS1 equivalent circuit, then CLEC shall provide to the independent auditor for its verification a statement of CLEC's out-of-pocket costs of complying with any requests of the independent auditor, and Sprint shall then reimburse CLEC for its out-of-pocket costs. These audit rights are in addition to Sprint's audit rights in Part B of this Agreement.

## **18. LINE SPLITTING**

### **18.1. Line Splitting**

- 18.1.1. Line Splitting is an arrangement between two carriers where one carrier provides the voice services and another carrier provides advanced

services over an unbundled loop.

- 18.1.2. Unbundled loops purchased as part of UNE-P may be used in a Line Splitting arrangement. In this configuration, CLEC leases the entire UNE Loop from Sprint, and Sprint performs operational activities necessary to allow the CLEC to extract the high frequency loop spectrum so that CLEC or another carrier can utilize the high frequency portion of the leased loop.
- 18.1.3. Whenever CLEC purchases the unbundled loop either as part of UNE-P or otherwise, CLEC shall control the entire loop spectrum.
- 18.1.4. Sprint shall institute procedures to allow CLEC or another carrier to order HFS data capabilities on a UNE loop.
- 18.2. When either CLEC or the other carrier orders Line Splitting using CLEC's OCN, CLEC will be billed the charges for the Line Splitting service. When the other carrier orders Line Splitting using its own OCN, Sprint will bill the other carrier for the Line Splitting charges.

## **19. MODIFICATIONS TO SPRINT'S EXISTING NETWORK**

### **19.1. Modifications to Unbundled Loop and Dedicated Transport Facilities**

- 19.1.1. Sprint will make routine network modifications to unbundled loop facilities used by CLEC where the requested loop facility has already been constructed. Sprint will perform routine network modifications to unbundled loop facilities in a nondiscriminatory fashion, without regard to whether the loop facility being accessed was constructed on behalf, or in accordance with the specifications, of any carrier. CLEC will compensate Sprint for the costs of such routine network modifications to unbundled loop facilities to the extent the costs are not recovered in the unbundled loop rates.
  - 19.1.1.1. In the case of unbundled loop facilities, a routine network modification is an activity that Sprint regularly undertakes for its own customers. Routine network modifications may include, but are not limited to, rearranging or splicing of cable; adding an equipment case; adding a doubler or repeater; adding a smart jack; installing a repeater shelf; adding a line card; deploying a new multiplexer or reconfiguring an existing multiplexer; and attaching electronic and other equipment that Sprint ordinarily attaches to a DS1 Loop to activate such loop for its own customer. Routine network modifications may also include activities needed to enable CLEC to obtain access to a Dark Fiber Loop. Routine network modifications may entail activities such as accessing manholes, deploying bucket trucks to reach aerial cable, and installing equipment casings. Routine network modifications do not include the construction of new loop

facilities or the installation of new aerial or buried cable for CLEC.

19.1.2. Sprint will make routine network modifications to unbundled dedicated transport facilities used by CLEC where the requested Dedicated Transport facilities have already been constructed. Sprint will perform the routine network modifications to unbundled Dedicated Transport facilities in a nondiscriminatory fashion, without regard to whether the facility being accessed was constructed on behalf, or in accordance with the specifications, of any carrier. CLEC will compensate Sprint for the costs of such routine network modifications to unbundled Dedicated Transport facilities to the extent the costs are not recovered in the unbundled Dedicated Transport rates.

19.1.2.1. In the case of unbundled Dedicated Transport facilities, a routine network modification is an activity that Sprint regularly undertakes for its own customers. Routine network modifications may include, but are not limited to, rearranging or splicing of cable; adding an equipment case; adding a doubler or repeater; installing a repeater shelf; and deploying a new multiplexer or reconfiguring an existing multiplexer. Routine network modifications also include activities needed to enable CLEC to light a Dark Fiber transport facility. Routine network modifications may entail activities such as accessing manholes, deploying bucket trucks to reach aerial cable, and installing equipment casings. Routine network modifications do not include the installation of new aerial or buried cable for CLEC.

## 19.2. Loop Conditioning

19.2.1. Conditioned loops are loops from which excessive bridge taps, load coils, low-pass filters, range extenders, and similar devices have been removed to enable the delivery of high-speed switched wireline telecommunications capability, including DSL. Sprint will condition loops at CLEC's request and will assess charges for loop conditioning in accordance with the prices listed in Table One. Sprint recommends that CLEC utilize the Loop Make-Up process in Section 15 prior to submitting orders for loops intended for advanced services.

**Add the following new Part:**

## 20. LINE SHARING

### 20.1. General Terms

20.1.1. Sprint shall make available the HFPL for line sharing by CLEC pursuant

to the following terms and conditions.

- 20.1.1.1. Grandfathered HFPL. For HFPLs that are in service prior to October 2, 2003, Sprint will offer HFPL at the rate effective on October 2, 2003 as long as that HFPL remains in service to the particular CLEC end-user.
- 20.1.1.2. CLEC may purchase additional HFPL from October 2, 2003 to October 1, 2004. Sprint will not provide access to additional HFPL after October 1, 2004.
- 20.1.1.3. For the HFPL ordered October 2, 2003 to October 1, 2004, the price for HFPL portion of the Loop will be 25% of the applicable UNE Loop rate for October 2, 2003 through October 1, 2004.
- 20.1.1.4. For HFPL ordered October 2, 2003 to October 1, 2004, the price for HFPL will be 50% of the applicable UNE Loop rate for October 2, 2004 through October 1, 2005.
- 20.1.1.5. For HFPL ordered October 2, 2003 to October 1, 2004, the price for HFPL will be 75% of the applicable UNE Loop rate for October 2, 2005 through October 1, 2006. After October 1, 2006, CLEC must order a stand-alone loop or negotiate a line splitting arrangement with another Telecommunications Carrier.
- 20.1.2. Sprint shall provide access to the HFPL at its central office locations and at any accessible terminal in the outside copper loop plant, subject to CLEC having an effective collocation agreement and the availability of space.
- 20.1.3. Sprint shall make the HFPL available to CLEC in only those instances when Sprint is the provider of analog circuit-switched voice band service on that same copper loop to the same End User.
  - 20.1.3.1. Sprint will not provide HFPL where copper facilities do not exist.
  - 20.1.3.2. When requested, Sprint will move an end user's analog circuit switched voice band service from digital loop carrier derived service to spare copper facilities, if available, via the non-recurring charges listed in Table One at CLEC's expense.
- 20.1.4. Reverse ADSL Loops. If a CLEC's ADSL Transmission Unit (including those integrated into DSLAMs) is attached to Sprint's Network and if an ADSL copper loop should start at an outside location, and is looped through a host or remote, and then to the end user, the copper plant from the outside location to the Sprint host or remote

central office must be a facility dedicated to ADSL transmission only and not part of Sprint's regular feeder or distribution plant.

20.1.5. In the event that the end user being served by CLEC via HFPL terminates its Sprint-provided retail voice service, or when Sprint provided retail voice service is disconnected due to "denial for non-pay", Sprint shall provide reasonable notice to CLEC prior to disconnect. CLEC shall have the option of purchasing an entire stand-alone UNE digital loop if it wishes to continue to provide advanced services to that end user. If CLEC notifies Sprint that it chooses this option, CLEC and Sprint shall cooperate to transition DSL service from the HFPL to the stand-alone loop without any interruption of service pursuant to the provisions set forth below. If CLEC declines to purchase the entire stand alone UNE digital loop, Sprint may terminate the HFPL.

20.1.6. Sprint will use reasonable efforts to accommodate the continued use by CLEC as a stand-alone UNE digital loop of the copper loop facilities over which CLEC is provisioning advanced services at the time that the Sprint-provided retail voice service terminates; provided that:

20.1.6.1. adequate facilities are available to allow the provisioning of voice service over such other facilities, and

20.1.6.2. CLEC agrees to pay any additional ordering charges associated with the conversion from the provisioning of HFPL to a stand alone unbundled digital loop as specified in Table One (excluding conditioning charges).

20.1.7. If other such facilities do not exist and the End User being served by CLEC via HFPL has its Sprint-provided retail voice service terminated and another carrier ("Voice CLEC") seeks to purchase the copper loop facilities (either as resale or a UNE) over which CLEC is provisioning advanced services at the time that the Sprint-provided retail voice service terminates, Sprint will continue to allow the provision of advanced services by CLEC over the copper facilities as an entire stand-alone UNE digital loop until such time as the Voice CLEC certifies to Sprint that the End User has chosen the Voice CLEC for the provision of voice service over the existing facilities. Sprint will provide reasonable notice to CLEC prior to disconnection.

## 20.2. Information to be Provided

20.2.1. In connection with the provision of HFPL, Sprint shall provide to CLEC the information specified in Section 6.7.

20.2.2. In connection with the provision of HFPL, CLEC shall provide to Sprint the information specified in Section 6.7.

20.2.3. In connection with the provision of HFPL, if CLEC relies on a calculation-based approach to support deployment of a particular

technology, it must provide Sprint with information on the speed and power at which the signal will be transmitted.

20.3. Conditioning, Testing, Maintenance

- 20.3.1. Sprint will condition HFPL in accordance with Section 19.2. Sprint will not condition the loop if such activity significantly degrades the quality of the analog circuit-switched voice band service on the loop.
- 20.3.2. If Sprint declines a CLEC request to condition a loop and Sprint is unable to satisfy CLEC of the reasonableness of Sprint's justification for such refusal, Sprint must make a showing to the Commission that conditioning the specific loop in question will significantly degrade voiceband services.
- 20.3.3. At the installation of retail voice service, and in response to reported trouble, Sprint will perform basic testing (simple metallic measurements) by accessing the loop through the voice switch. Sprint expects the CLEC to deploy the testing capability for its own specialized services. If CLEC requests testing other than basic installation testing as indicated above, Sprint and CLEC will negotiate terms and charges for such testing.
- 20.3.4. Any additional maintenance of service conducted at CLEC's request by Sprint on behalf of the CLEC solely for the benefit of the CLEC's services will be paid for by CLEC at prices negotiated by Sprint and CLEC.

20.4. Deployment and Interference

- 20.4.1. In providing services utilizing the HFPL, Sprint shall allow CLEC to deploy underlying technology that does not significantly interfere with other advanced services and analog circuit-switched voice band transmissions.
- 20.4.2. Sprint shall employ industry accepted standards and practices to maximize binder group efficiency through analyzing the interference potential of each loop in a binder group, assigning an aggregate interference limit to the binder group, and then adding loops to the binder group until that limit is met. Disputes regarding the standards and practices employed in this regard shall be resolved through the Dispute Resolution Process set forth in Part B of this Agreement.
- 20.4.3. Until long term industry standards and practices can be established, a particular technology using the high frequency portion of the loop shall be presumed acceptable for deployment under certain circumstances. Deployment that is consistent with at least one of the following circumstances presumes that such loop technology will not significantly degrade the performance of other advanced services or impair traditional analog circuit-switched voice band services:



- 20.4.3.1. Complies with existing industry standards, including an industry-standard PSD mask, as well as modulation schemes and electrical characteristics;
  - 20.4.3.2. Is approved by an industry standards body, the FCC, or any state commission, or;
  - 20.4.3.3. Has been successfully deployed by any CLEC without significantly degrading the performance of other services; provided however, where CLEC seeks to establish that deployment of a technology falls within the presumption of acceptability under this paragraph, the burden is on CLEC to demonstrate to the Commission that its proposed deployment meets the threshold for a presumption of acceptability and will not, in fact, significantly degrade the performance of other advanced services or traditional voice band services.
- 20.5. If a deployed technology significantly degrades traditional analog circuit-switched voice band services, Sprint will notify the CLEC and give them a reasonable opportunity to correct the problem. CLEC will immediately stop any new deployment until the problem is resolved to mitigate disruption of Sprint and other carrier services. If Sprint and the CLEC are unable to resolve the problem, they will present factual evidence to the Commission for review and determination. If the Commission determines that the CLEC's technology is the cause of the interference, the CLEC will remedy the problem by reducing the number of existing customers utilizing the technology or by migrating them to another technology that does not disturb.
  - 20.6. If a deployed technology significantly degrades other advanced services, the affected Party will notify the interfering party and give them a reasonable opportunity to correct the problem. The interfering Party will immediately stop any new deployment until the problem is resolved to mitigate disruption of other carrier services. If the affected parties are unable to resolve the problem, they will present factual evidence to the Commission for review and determination. If the Commission determines that the deployed technology is the cause of the interference, the deploying party will remedy the problem by reducing the number of existing customers utilizing the technology or by migrating them to another technology that does not disturb.
  - 20.7. When the only degraded service itself is a known disturber and the newly deployed technology is presumed acceptable, the degraded service shall not prevail against the newly deployed technology.
  - 20.8. If Sprint denies a request by CLEC to deploy a technology, it will provide detailed, specific information providing the reasons for the rejection.

## 21. FORECAST

- 21.1. CLEC will provide monthly forecast information to Sprint updated quarterly on a rolling twelve-month basis for requests for analog Loops (including Subloops), digital Loops (including Subloops), and HFPL. An initial forecast meeting should be held soon after the first implementation meeting. A forecast should be provided at or prior to the first implementation meeting. The forecasts shall project the gain/loss of shared lines on a monthly basis by Sprint wire center and shall include a description of any major network projects planned by CLEC that will affect the demand. Forecast information shall be subject to the confidentiality provisions of this Agreement. Forecast information will be used solely for network planning and operations planning and shall not be disclosed within Sprint except as required for such purposes. Under no circumstances shall CLEC specific forecast information be disclosed to Sprint's retail organization (excluding solely those operational personnel engaged in network and operations planning), product planning, sales or marketing.
- 21.2. Upon request of either Party, the Parties shall meet to review their forecasts going forward if forecasts vary significantly from actual results.
- 21.3. Each Party shall provide a specified point of contact for planning purposes.

## **22. INDEMNIFICATION**

- 22.1. Each Party, whether a CLEC or Sprint, agrees that should it cause any non-standard DSL technologies to be deployed or used in connection with or on Sprint facilities, that Party will pay all costs associated with any damage, service interruption or other telecommunications service degradation, or damage to the other Party's facilities.
- 22.2. For any technology, CLEC represents that its use of any Sprint network element, or of its own equipment or facilities in conjunction with any Sprint network element, will not materially interfere with or impair service over any facilities of Sprint, its affiliated companies or connecting and concurring carriers, cause damage to Sprint's plant, impair the privacy of any communications carried over Sprint's facilities or create hazards to employees or the public. Upon reasonable written notice and after a reasonable opportunity to cure, Sprint may discontinue or refuse service if CLEC violates this provision, provided that such termination of service will be limited to CLEC's use of the element(s) causing the violation. Sprint will not disconnect the elements causing the violation if, after receipt of written notice and opportunity to cure, CLEC demonstrates that their use of the network element is not the cause of the network harm.

### **Add the following new Part:**

## **23. CALL-RELATED DATABASES**

- 23.1. Sprint will offer access to call-related databases, including, but not limited to, the Line Information database (LIDB), Toll Free Calling database, Number Portability database, Calling Name (CNAM) database, Advanced Intelligent

Network (AIN) databases, and the AIN platform. Sprint reserves the right to decline to offer access to certain AIN software that qualifies for proprietary treatment.

## 23.2. Line Information Database (LIDB)

23.2.1. The LIDB is a transaction-oriented database that contains records associated with subscribers' Line Numbers and Special Billing Numbers. LIDB accepts queries in conjunction with unbundled local switching and provides appropriate responses. The query originator need not be the owner of LIDB data. LIDB queries include functions such as screening billed numbers to determine if the end user associated with the number has requested deny Collect or deny Third Number Billing call restrictions or whether a telephone line number based non-proprietary calling card has a valid Personal Identification Number (PIN).

### 23.2.2. Technical Requirements

23.2.2.1. Prior to the availability of Local Number Portability, Sprint shall enable CLEC to store in Sprint's LIDB any subscriber Line Number or Special Billing Number record, whether ported or not, for which the NPA-NXX or NXX-01-XX Group is supported by that LIDB, and NPA-NXX and NXX-0/1XX Group Records, belonging to a NPA-NXX or NXX-0/1XX owned by CLEC.

23.2.2.2. Subsequent to the availability of a long-term solution for Number Portability, Sprint, under the terms of a separate agreement with CLEC, shall enable CLEC to store in Sprint's LIDB any subscriber Line Number or Special Billing Number record, whether ported or not, regardless of the number's NPA-NXX or NXX-0/1XX.

23.2.2.3. Sprint shall perform the following LIDB functions for CLEC's subscriber records in LIDB: Billed Number Screening (provides information such as whether the Billed Number may accept Collect or Third Number Billing calls); and Calling Card Validation.

23.2.2.4. Sprint shall process CLEC's subscribers' records into LIDB at Parity with Sprint subscriber records. With respect to other LIDB functions Sprint shall indicate to CLEC what additional functions (if any) are performed by LIDB in their network.

23.2.2.5. Sprint shall perform backup and recovery of all of CLEC's data in LIDB at Parity with backup and recovery of all other records in the LIDB, including sending to LIDB all

changes made since the date of the most recent backup copy.

23.2.3. Compensation and Billing

23.2.3.1. Access by CLEC to LIDB information in Sprint's LIDB Database - CLEC shall pay a per query charge as detailed in Sprint's applicable tariff or published price list.

23.2.3.2. Access to Other Companies' LIDB Database - Access to other companies' LIDB shall be provided at a per query rate established for hubbing of \$0.0035 and a rate for LIDB queries and switching of \$0.065 for a combined rate of \$0.0685.

23.2.4. Authorized Uses of Sprint's LIDB Database - Use of Sprint's LIDB Database by CLEC and CLEC's customers is limited to obtaining LIDB responses and using the information contained in those responses only on a call by call basis and only to support service related to a call in progress. CLEC will not capture, cache, or store any information contained in a LIDB response. CLEC will prohibit in its tariff or contracts with its customers or other third parties the capture, caching or storage of LIDB response information and passing of any information obtained from a LIDB query response on to any third party.

23.3. Calling Name Database (CNAM)

23.3.1. The CNAM database is a transaction-oriented database accessible via the CCS network. It contains records associated with subscribers' Line Numbers and Names. CNAM accepts queries from other Network Elements and provides the calling name. The query originator need not be the owner of CNAM data. CNAM provides the calling parties' name to be delivered and displayed to the terminating caller with 'Caller ID with Name'.

23.3.2. Technical Requirements

23.3.2.1. Storage of CLEC Caller Names in the Sprint CNAM Database is available under the terms of a separate contract.

23.3.2.2. Sprint shall provide access to Sprint CNAM database for purpose of receiving and responding to CNAM Service Queries.

### 23.3.3. Compensation and Billing

23.3.3.1. Access by CLEC to CNAM information in Sprint's CNAM Database - CLEC shall pay a per query charge as detailed in Sprint's applicable tariff or published price list.

23.3.3.2. Access to Other Companies' CNAM Database - Access to other companies CNAM shall be provided at a per query rate established for hubbing of \$0.0035 and a rate for CNAM queries and switching of \$0.016 for a combined rate of \$0.0195.

23.3.4. Authorized Uses of Sprint's CNAM Database - Use of Sprint's CNAM Database by CLEC and CLEC's customers is limited to obtaining CNAM responses and using the information contained in those responses only on a call by call basis and only to support service related to a call in progress. CLEC will not capture, cache, or store any information contained in a CNAM response. CLEC agrees to prohibit via its tariff or contracts with its customers or other third parties the capture, caching or storage of CNAM response information and the passing or resale of any information obtained from a CNAM query response on to any third party.

### 23.4. Toll Free Number Database

23.4.1. The Toll Free Number Database provides functionality necessary for toll free (e.g., 800 and 888) number services by providing routing information and additional vertical features (i.e., time of day routing by location, by carrier and routing to multiple geographic locations) during call setup in response to queries from CLEC's switch. The Toll Free records stored in Sprint's database are downloaded from the SMS/800. Sprint shall provide the Toll Free Number Database in accordance with the following:

#### 23.4.1.1. Technical Requirements

23.4.1.1.1. The Toll Free Number Database shall return IXC identification and, where applicable, the queried toll free number, translated numbers and instructions as it would in response to a query from a Sprint switch.

### 23.4.2. Compensation and Billing

23.4.2.1. Access by CLEC to the Toll Free Number Database Information - CLEC shall pay a per query charge as detailed in Sprint's applicable tariff or published price list.

23.4.3. Authorized Uses of Sprint's Toll Free Database - Use of Sprint's Toll Free Database by CLEC and its customers is limited to obtaining

information, on a call-by-call basis, for proper routing of calls in the provision of toll free exchange access service or local toll free service.

23.5. Local Number Portability Local Routing Query Service

23.5.1. TCAP messages originated by CLEC's SSPs and received by Sprint's database will be provided a response upon completion of a database lookup to determine the LRN. This information will be populated in industry standard format and returned to CLEC so that it can then terminate the call in progress to the telephone number now residing in the switch designated by the LRN. Sprint shall provide the LNP Query Service in accordance with the following:

23.5.1.1. Technical Requirements

23.5.1.1.1. CLEC agrees to obtain, prior to the initiation of any query or other service under this Agreement, a NPAC/SMS User Agreement with Lockheed. CLEC will maintain the NPAC/SMS User Agreement with Lockheed, or its successor, as long as it continues to make LNP queries to the Sprint database. Failure to obtain and maintain the NPAC/SMS User Agreement is considered a breach of this Agreement and is cause for immediate termination of service. Sprint shall not be liable for any direct or consequential damages due to termination because of lack of a NPAC/SMS User Agreement.

23.5.1.1.2. First Usage Notification - Sprint will provide CLEC with notification of the first ported number order processed in each NPA/NXX eligible for porting. This shall be provided via E-mail to CLEC's designee on a mutually agreeable basis.

23.5.2. Compensation and Billing

23.5.2.1. Access by CLEC to the LNP Database information -- CLEC shall pay a per query charge as detailed in Sprint's applicable tariff or published price list.

23.5.2.2. NPAC Costs - Sprint's LNP Database service offering does not include the cost of any charges or assessments by Number Portability Administrative Centers, whether under the NPAC/SMS User Agreement with Lockheed, or otherwise, or any charges assessed directly against CLEC as the result of the FCC LNP Orders or otherwise by any

third-party. These costs include the costs assessed against telecommunications carriers to pay for NPAC functions as permitted by the FCC and applicable legal or regulatory bodies. Sprint shall have no liability to CLEC or the NPAC for any of these fees or charges applicable to CLEC, even though it may pay such charges for other Sprint companies.

**Add to Part F of Agreement:**

**24. SIGNALING NETWORK INTERCONNECTION**

24.1. Sprint will offer interconnection to its signaling transfer points (STPs) for CLEC switches which connect to Sprint's STPs via "A" links or for CLEC's "B or D" links which are dedicated to the transport of signaling for local interconnection.

**24.2. Signaling Systems**

**24.2.1. Signaling Link Transport**

24.2.1.1. Signaling Link Transport is a set of two or four dedicated 56 Kbps transmission paths between CLEC-designated Signaling Points of Interconnection (SPOI) that provides appropriate physical diversity and a cross connect at a Sprint STP site.

24.2.1.2. Technical Requirements. Signaling Link transport shall consist of full duplex mode 56 Kbps transmission paths.

**24.2.2. Signaling Transfer Points (STPs)**

24.2.2.1. STPs provide functionality that enable the exchange of SS7 messages among and between switching elements, databases and third party signaling transfer points.

24.3. Technical Requirements. STPs provide interconnection to the functions of signaling networks or to third party SS7 networks connected to the Sprint SS7 network. These functions include:

24.3.1. Sprint Local Switching or Tandem Switching;

24.3.2. Sprint Service Control Points (SCPs)/Databases if arranged for under separate agreements;

24.3.3. Third-party local or Tandem Switching systems subject to any additional conditions or terms of the Third Party and

24.3.4. Third party provider STPs subject to any additional conditions or terms of the Third Party.

24.4. Interface Requirements. Sprint shall provide the following STP options to connect CLEC or CLEC-designated local switching systems or STPs to the Sprint

SS7 network:

24.4.1. An A-link interface from CLEC local switching systems; and

24.4.2. B- or D-link interface from CLEC STPs.

24.4.3. Each type of interface shall be provided by one or more sets (layers) of signaling links, as follows:

24.4.3.1. An A-link layer shall consist of two links,

24.4.3.2. A B- or D-link layer shall consist of four links,

24.5. Signaling Point of Interconnection (SPOI) for each link shall be located at a cross-connect element, such as a DSX-1, in the Central Office (CO) where the Sprint STP is located. Interface to Sprint's STP shall be the 56kb rate. The 56kb rate can be part of a larger facility, and CLEC shall pay multiplexing/demultiplexing and channel termination, plus mileage of any leased facility.



## **NOTICES:**

Except as otherwise provided, all notices and other communication hereunder shall be deemed to have been duly given when made in writing and delivered in person or deposited in the United States mail, certified mail, postage paid, return receipt requested and addressed as follows:

To CLEC:                    Duane C. Bennett, Chief Operating Officer  
                                  Citynet Tennessee, LLC  
                                  343 N. Front Street, Suite 400  
                                  Columbus, OH 43215

To Sprint:                    Director – Local Carrier Services  
                                  Sprint  
                                  6480 Sprint Parkway  
                                  Mailstop: KSOPHM0310-3A453  
                                  Overland Park, KS 66251

:

## **PARTIES:**

CLEC is hereby substituted in the Adopted Agreement for NA Communications, Inc. and Sprint shall remain as the other Party to the Agreement. Except as modified above, the Agreement shall in all other respects reflect the same terms as the Adopted Agreement.

IN WITNESS WHEREOF, the Parties hereto have caused this Agreement to be executed by their duly respective authorized representatives.

**"Sprint" United Telephone – Southeast, Inc.**

**"CLEC" Citynet Tennessee, LLC**

By:



By:



Name  
(typed):

William E. Cheek

Name:

Duane C. Bennett

Title:

AVP – Strategic Sales & Account  
Management

Title:

Chief Operating Officer

Date:

3/24/04

Date:

3/12/04

**BEFORE THE TENNESSEE REGULATORY AUTHORITY**  
**NASHVILLE, TENNESSEE**

**August 12, 2003**

**IN RE:**

**PETITION FOR APPROVAL OF  
INTERCONNECTION AND RESALE  
AGREEMENT BETWEEN UNITED  
TELEPHONE-SOUTHEAST, INC.  
AND NA COMMUNICATIONS, INC.**

**DOCKET NO.  
03-00309**

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**ORDER APPROVING  
INTERCONNECTION AND RESALE AGREEMENT**

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This matter came before Chairman Deborah Taylor Tate, Director Sara Kyle and Director Ron Jones of the Tennessee Regulatory Authority (the "Authority"), the voting panel assigned to this docket, at a regularly scheduled Authority Conference held on July 7, 2003, to consider, pursuant to 47 U.S.C. § 252, the Petition for approval of the interconnection and resale agreement negotiated between United Telephone-Southeast, Inc. and NA Communications, Inc., filed on April 25, 2003.

Based upon a review of the agreement, the record in this matter, and the standards for review set forth in 47 U.S.C. § 252, the Directors unanimously granted the Petition and made the following findings and conclusions:

- 1) The Authority has jurisdiction over public utilities pursuant to Tenn. Code Ann. § 65-4-104.
- 2) The agreement is in the public interest as it provides consumers with alternative sources of telecommunications services within the service area of United Telephone-Southeast, Inc.
- 3) The agreement is not discriminatory to telecommunications service providers that are not parties thereto.

4) 47 U.S.C. § 252(e)(2)(A) provides that a state commission may reject a negotiated agreement only if it "discriminates against a telecommunications carrier not a party to the agreement" or if the implementation of the agreement "is not consistent with the public interest, convenience or necessity." Unlike arbitrated agreements, a state commission may not reject a negotiated agreement on the grounds that the agreement fails to meet the requirements of 47 U.S.C. §§ 251 or 252(d).<sup>1</sup> Thus, although the Authority finds that neither ground for rejection of a negotiated agreement exists, this finding should not be construed to mean that the agreement is consistent with §§ 251 or 252(d) or, for that matter, previous Authority decisions.

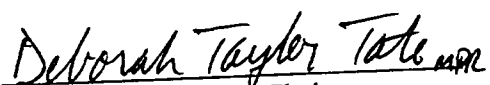
5) No person or entity has sought to intervene in this docket.


6) The agreement is reviewable by the Authority pursuant to 47 U.S.C. § 252 and Tenn.

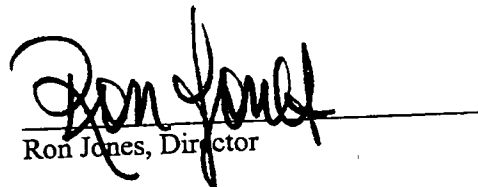
Code Ann. § 65-4-104.

**IT IS THEREFORE ORDERED THAT:**

The Petition is granted, and the Interconnection and Resale Agreement negotiated between United Telephone-Southeast, Inc. and NA Communications, Inc. is approved and is subject to the review of the Authority as provided herein.

  
Deborah Taylor Tate, Chairman

  
Sara Kyle, Director

  
Ron Jones, Director

<sup>1</sup> See 47 U.S.C § 252(e)(2)(B).



James B. Wright  
Senior Attorney

RECEIVED

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T.R.A. DOCKET ROOM

April 23, 2003

Honorable Sara Kyle, Chairman  
Tennessee Regulatory Authority  
460 James Robertson Parkway  
Nashville, TN 37243

DOCKET NO.

03-00309

Re: Petition for approval of Interconnection and Resale  
Agreement between United Telephone-Southeast, Inc.  
and NA Communications

Dear Chairman Kyle:

Enclosed are an original and thirteen copies of the Petition of United Telephone-Southeast, Inc. for approval of a Master Interconnection and Resale Agreement between United Telephone-Southeast, Inc. and NA Communications, Inc. United is not aware of any provisions in this agreement that are inconsistent with any previous Authority decisions in proceedings to which United was a party.

Also enclosed is a check in the amount of \$50.00 for the filing fees for both companies. Please contact me or Laura Sykora if you have any questions.

Sincerely,

*James B. Wright*  
James B. Wright

JBW:sm

Enclosures

cc: Laura Sykora  
Kaye Odum  
Steve Goodman, NA Communications  
Tim Phillips, CAPD (w/encl.)

BEFORE THE  
TENNESSEE REGULATORY AUTHORITY

IN RE: Petition for Approval of an	)	
Interconnection Agreement Negotiated	)	Docket No.
between United Telephone-Southeast,	)	<u>03-00309</u>
Inc. and NA Communications, Inc.	)	

PETITION

United Telephone-Southeast, Inc. ("United") files this request for approval of a Master Network Interconnection and Resale Agreement dated April 1, 2003 (the "Agreement") negotiated between United and NA Communications, Inc. ("NA Communications") pursuant to Sections 251 and 252 of the Telecommunications Act of 1996 (the "Act"). In support of this request, United shows the following:

1. United and NA Communications have successfully negotiated the Agreement which provides for the local interconnection, local resale and purchase of unbundled network elements by NA Communications for the purpose of NA Communications' use or resale to end users. A copy of the Agreement is attached hereto and incorporated herein by reference.

2. Pursuant to Section 252(e) of the Telecommunications Act of 1996, United is submitting the Agreement to the Tennessee Regulatory Authority ("TRA") for its consideration and approval.

3. In accordance with Section 252(e) of the Act, the TRA is charged with approving or rejecting the negotiated Agreement between United and NA Communications within 90 days of its submission. The Act provides that the

TRA may only reject such an agreement if it finds that the agreement or any portion of the agreement discriminates against a telecommunications carrier not a party to the agreement or the implementation of the agreement or any portion thereof is not consistent with the public interest, convenience and necessity.

4 United avers that the Agreement is consistent with the standards for approval. The approval of said Agreement provides for new competitors in the local exchange market, which will likely bring new services, lower prices and other benefits to the public.

5. Pursuant to Section 252(i) of the Act, once this Agreement is approved, United will make the terms and conditions of the Agreement available to any other requesting telecommunications carrier.

United respectfully requests that the Tennessee Regulatory Authority approve the Agreement negotiated between these parties.

Respectfully submitted,  
United Telephone-Southeast, Inc.

By: James B. Wright  
James B. Wright

This 23rd day of April, 2003



**MASTER INTERCONNECTION AND RESALE AGREEMENT  
FOR THE STATE OF TENNESSEE**

*April 1, 2003*

*NA Communications, Inc.*

*and*

*United Telephone – Southeast, Inc.*



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## INTERCONNECTION AND RESALE AGREEMENT

This Interconnection and Resale Agreement (the "Agreement"), entered into this *1st* day of *April*, 2003, is entered into by and between NA Communications, Inc. ("CLEC"), a Virginia corporation, and United Telephone – Southeast, Inc. ("Sprint"), Virginia corporations, to establish the rates, terms and conditions for local interconnection, local resale, and purchase of unbundled network elements (individually referred to as the "service" or collectively as the "services").

WHEREAS, the Parties wish to interconnect their networks for the purposes of transmission and termination of calls, so that customers of each can receive calls that originate on the other's network and place calls that terminate on the other's network, and for the provision of exchange access ("Local Interconnection"); and

WHEREAS, CLEC wishes to purchase Telecommunications Services for resale to others, and Sprint is willing to provide such service; and

WHEREAS, CLEC wishes to purchase unbundled network elements, ancillary services and functions and additional features ("Network Elements"), and to use such services for itself or for the provision of its Telecommunications Services to others, and Sprint is willing to provide such services; and

WHEREAS, the Parties intend the rates, terms and conditions of this Agreement, and their performance of obligations thereunder, to comply with the Communications Act of 1934, as amended (the "Act"), the Rules and Regulations of the Federal Communications Commission ("FCC"), and the orders, rules and regulations of the Tennessee Regulatory Authority (the "Commission"); and

WHEREAS, the parties wish to replace any and all other prior agreements, written and oral, applicable to the state of Tennessee.

Now, therefore, in consideration of the terms and conditions contained herein, CLEC and Sprint hereby mutually agree as follows:

## PART A - DEFINITIONS

### 1. DEFINED TERMS

- 1.1. Capitalized terms defined in this Section shall have the meanings as set forth herein. Other terms used but not defined herein will have the meanings ascribed to them in the Act or in the Rules and Regulations of the FCC or the Commission. The Parties acknowledge that other terms appear in this Agreement, which are not defined or ascribed as stated above. The parties agree that any such terms shall be construed in accordance with their customary usage in the telecommunications industry as of the Effective Date of this Agreement.
- 1.2. "911 Service" means a universal telephone number which gives the public direct access to the Public Safety Answering Point (PSAP). Basic 911 service collects 911 calls from one or more local exchange switches that serve a geographic area. The calls are then sent to the correct authority designated to receive such calls.
- 1.3. "Access Services" refers to interstate and intrastate switched access and private line transport services.
- 1.4. "Act" means the Communications Act of 1934, as amended.
- 1.5. "Affiliate" is as defined in the Act.
- 1.6. "Automated Message Accounting (AMA)" is the structure inherent in switch technology that initially records telecommunication message information. AMA format is contained in the Automated Message Accounting document, published by Telcordia as GR-1100-CORE which defines the industry standard for message recording.
- 1.7. "Automatic Location Identification (ALI)" is a feature developed for E911 systems that provides for a visual display of the caller's telephone number, address and the names of the Emergency Response agencies that are responsible for that address.
- 1.8. "Automatic Location Identification/Data Management System (ALI/DMS)" means the emergency service (E911/911) database containing subscriber location information (including name, address, telephone number, and sometimes special information from the local service provider) used to determine to which Public Safety Answering Point (PSAP) to route the call.
- 1.9. "Automatic Number Identification (ANI)" is a feature that identifies and displays the number of a telephone line that originates a call.
- 1.10. "Automatic Route Selection (ARS)" is a service feature associated with a specific grouping of lines that provides for automatic selection of the least expensive or most appropriate transmission facility for each call based on criteria programmed into the system.



- 1.11. "ATU – C" refers to an ADSL Transmission Unit – Central Office.
- 1.12. "Busy Line Verify/Busy Line Verify Interrupt (BLV/BLVI)" means an operator call in which the caller inquires as to the busy status of, or requests an interruption of a call on another subscriber's telephone line.
- 1.13. "Business Day(s)" means the days of the week excluding Saturdays, Sundays, and all Sprint holidays.
- 1.14. "Carrier Access Billing System (CABS)" is the system which is defined in a document prepared under the direction of the Billing Committee of the OBF. The CABS document is published by Telcordia in Volumes 1, 1A, 2, 3, 3A, 4 and 5 as Special Reports SR-OPT-001868, SR-OPT-001869, SR-OPT-001871, SR-OPT-001872, SR-OPT-001873, SR-OPT-001874, and SR-OPT-001875, respectively, and contains the recommended guidelines for the billing of access and other connectivity services. Sprint's carrier access billing system is its Carrier Access Support System (CASS). CASS mirrors the requirements of CABS.
- 1.15. "Common Channel Signaling (CCS)" is a method of digitally transmitting call set-up and network control data over a digital signaling network fully separate from the public switched telephone network that carries the actual call.
- 1.16. "Central Office Switches" ("COs") - are switching facilities within the public switched telecommunications network, including, but not limited to:
  - 1.16.1. "End Office Switches" ("EOs") are switches from which end user Telephone Exchange Services are directly connected and offered.
  - 1.16.2. "Tandem Switches" are switches that are used to connect and switch trunk circuits between and among Central Office Switches.
  - 1.16.3. "Remote Switches" are switches that are away from their host or control office. All or most of the central control equipment for the remote switch is located at the host or control office.
- 1.17. "Centrex" means a Telecommunications Service associated with a specific grouping of lines that uses central office switching equipment for call routing to handle direct dialing of calls, and to provide numerous private branch exchange-like features.
- 1.18. "CLASS/LASS" (Telcordia Service Mark) refers to service features that utilize the capability to forward a calling party's number between end offices as part of call setup. Features include Automatic Callback, Automatic Recall, Caller ID, Call Trace, and Distinctive Ringing.
- 1.19. "Commission" means the Tennessee Regulatory Authority.
- 1.20. "Common Transport" provides a local interoffice transmission path between the Sprint Tandem Switch and a Sprint or CLEC end office switch. Common Transport is shared between multiple customers and is required to be switched at

the Tandem.

- 1.21. "Confidential and/or Proprietary Information" has the meaning set forth in Section 11 of Part A -- General Terms and Conditions.
- 1.22. "Control Office" is an exchange carrier center or office designated as the Party's single point of contact for the provisioning and maintenance of its portion of local interconnection arrangements.
- 1.23. "Custom Calling Features" means a set of Telecommunications Service features available to residential and single-line business customers including call-waiting, call-forwarding and three-party calling.
- 1.24. "Customer Proprietary Network Information (CPNI)" is as defined in the Act.
- 1.25. "Database Management System (DBMS)" is a computer process used to store, sort, manipulate and update the data required to provide selective routing and ALI.
- 1.26. "Dedicated Transport" provides a local interoffice transmission path between Sprint and/or CLEC central offices. Dedicated Transport is limited to the use of a single customer and does not require switching at a Tandem.
- 1.27. "Digital Subscriber Line Access Multiplexer" ("DSLAM") is equipment that links end-user xDSL connections to a single high-speed packet switch, typically ATM or IP.
- 1.28. "Directory Assistance Database" refers to any subscriber record used by Sprint in its provision of live or automated operator-assisted directory assistance including but not limited to 411, 555-1212, NPA-555-1212.
- 1.29. "Directory Assistance Services" provides listings to callers. Directory Assistance Services may include the option to complete the call at the caller's direction.
- 1.30. "DSLAM" refers to a Digital Subscriber Line Access Multiplexer.
- 1.31. "Duct" is a single enclosed path to house facilities to provide telecommunications services.
- 1.32. "Enhanced 911 Service (E911)" means a telephone communication service which will automatically route a call dialed "9-1-1" to a designated public safety answering point (PSAP) attendant and will provide to the attendant the calling party's telephone number and, when possible, the address from which the call is being placed and the Emergency Response agencies responsible for the location from which the call was dialed.
- 1.33. "Effective Date" is the date referenced in the opening paragraph on page 1 of the Agreement, unless otherwise required by the Commission.
- 1.34. "Electronic Interface" means access to operations support systems consisting of preordering, ordering, provisioning, maintenance and repair and billing functions.

- 1.35 "Emergency Response Agency" is a governmental entity authorized to respond to requests from the public to meet emergencies.
- 1.36 "Emergency Service Number (ESN)" is a number assigned to the ALI and selective routing databases for all subscriber telephone numbers. The ESN designates a unique combination of fire, police and emergency medical service response agencies that serve the address location of each in-service telephone number.
- 1.37 "EMI" (Exchange Message Interface System) is the Industry standard for exchanging telecommunications message information for billable, non-billable, sample settlement and study records. The EMI is published by ATIS (Alliance for Telecommunications Industry Solutions).
- 1.38 "End Date" is the date this Agreement terminates.
- 1.39 "FCC" means the Federal Communications Commission.
- 1.40 "Grandfathered Service" means service which is no longer available for new customers and is limited to the current customer at their current locations with certain provisioning limitations, including but not limited to upgrade denials, feature adds/changes and responsible/billing Party.
- 1.41 "High Frequency Spectrum Unbundled Network Element" ("HFS UNE") is defined as the frequency range above the voice band on a copper loop facility that is being used to carry analog circuit-switched voice band transmissions. The FCC's Third Report and Order in CC Docket No. 98-147 and Fourth Report and Order in CC Docket No. 96-98 (rel. December 9, 1999) (the "Line Sharing Order") references the voice band frequency of the spectrum as 300 to 3000 Hertz (and possibly up to 3400 Hertz) and provides that xDSL technologies which operate at frequencies generally above 20,000 Hertz will not interfere with voice band transmission.
- 1.42 "Incumbent Local Exchange Carrier (ILEC)" is as defined in the Act.
- 1.43 "Interexchange Carrier (IXC)" means a provider of interexchange telecommunications services.
- 1.44 "Interim Number Portability (INP)" is a service arrangement whereby subscribers who change local service providers may retain existing telephone numbers without impairment of quality, reliability, or convenience when remaining at their current location or changing their location within the geographic area served by the initial carrier's serving central office. Upon implementation of Local Number Portability, defined herein, INP services will be discontinued.
- 1.45 "Information Access Traffic", for the purposes of this Agreement, is traffic (excluding CMRS traffic) that is transmitted to or returned from the Internet at any point during the duration of the transmission between the Parties.

- 1 46. "Line Information Data Base (LIDB)" means a Service Control Point (SCP) database that provides for such functions as calling card validation for telephone line number cards issued by Sprint and other entities and validation for collect and billed-to-third services.
- 1.47. "Local Loop" refers to a transmission path between the main distribution frame [cross-connect], or its equivalent, in a Sprint Central Office or wire center, and up to the Network Interface Device at a customer's premises, to which CLEC is granted exclusive use. This includes, but is not limited to, two-wire and four-wire copper analog voice-grade loops, two-wire and four-wire loops that are conditioned to transmit the digital signals needed to provide services such as ISDN and DS1-level signals.
- 1.48. "Local Number Portability (LNP)" means the ability of users of Telecommunications Services to retain, at the same Sprint served rate center, existing telecommunications numbers without impairment of quality, reliability, or convenience when switching from one telecommunications carrier to another.
- 1.49. "Local Service Request (LSR)" means an industry standard form or a mutually agreed upon change thereof, used by the Parties to add, establish, change or disconnect local services.
- 1.50. "Local Traffic," for the purposes of this Agreement the Parties agree that "Local Traffic" means traffic (excluding CMRS traffic) that is originated and terminated within Sprint's local calling area, or mandatory expanded area service (EAS) area, as defined by State commissions or, if not defined by State commissions, then as defined in existing Sprint tariffs. For this purpose, Local Traffic does not include any Information Access Traffic. Neither Party waives its' rights to participate and fully present its' respective positions in any proceeding dealing with the compensation for Internet traffic.
- 1.51. "Multiple Exchange Carrier Access Billing (MECAB)" refers to the document prepared by the Billing Committee of the ATIS Ordering and Billing Forum (OBF). The MECAB document contains the recommended guidelines for the billing of an access service provided to a customer by two or more providers or by one provider in two or more states within a single LATA.

- 1.52. "Multiple Exchange Carrier Ordering And Design" ("MECOD") refers to the guidelines for Access Services - Industry Support Interface, a document developed by the Ordering/Provisioning Committee under the auspices of the Ordering and Billing Forum (OBF), which functions under the auspices of the Carrier Liaison Committee (CLC) of the Alliance for Telecommunications Industry Solutions (ATIS). The MECOD document, published by Telcordia as Special Report SR STS-002643, establishes recommended guidelines for processing orders for access service which is to be provided by two or more telecommunications carriers.
- 1.53. "North American Numbering Plan" ("NANP") means the plan for the allocation of unique 10-digit directory numbers consisting of a three-digit area code, a three-digit office code, and a four-digit line number. The plan also extends to format variations, prefixes, and special code applications.
- 1.54. "National Emergency Number Association (NENA)" is an association with a mission to foster the technological advancement, availability and implementation of 911 nationwide.
- 1.55. "Network Element" as defined in the Act.
- 1.56. "Non-standard DSL Technologies" is a DSL technology that does not meet the requirements of 47 C.F.R. 51.230.
- 1.57. "Numbering Plan Area (NPA)" (sometimes referred to as an area code) is the three-digit indicator which is designated by the first three digits of each 10-digit telephone number within the NANP. Each NPA contains 800 possible NXX Codes. There are two general categories of NPA, "Geographic NPAs" and "Non-Geographic NPAs." A "Geographic NPA" is associated with a defined geographic area, and all telephone numbers bearing such NPA are associated with services provided within that geographic area. A "Non-Geographic NPA," also known as a "Service Access Code (SAC Code)" is typically associated with a specialized telecommunications service which may be provided across multiple geographic NPA areas; 500, 800, 900, 700, and 888 are examples of Non-Geographic NPAs.
- 1.58. "NXX," "NXX Code," "NNX," "COC," "Central Office Code," or "CO Code" is the three-digit switch entity indicator which is defined by the fourth, fifth and sixth digits of a 10-digit telephone number within NANP.
- 1.59. "OBF" means the Ordering and Billing Forum, which functions under the auspices of the Carrier Liaison Committee (CLC) of the Alliance for Telecommunications Industry Solutions (ATIS)
- 1.60. "Operator Systems" is the Network Element that provides operator and automated call handling with billing, special services, subscriber telephone listings, and optional call completion services.
- 1.61. "Operator Services" provides for:

- 1.61.1. operator handling for call completion (e.g., collect calls),
  - 1.61.2. operator or automated assistance for billing after the subscriber has dialed the called number (e.g., credit card calls), and
  - 1.61.3. special services (e.g., BLV/BLI, Emergency Agency Call).
- 1.62. "Party" means the provision by Sprint of services, Network Elements, functionality or telephone numbering resources under this Agreement to CLEC, including provisioning and repair, at least equal in quality to those offered to Sprint, its Affiliates, its end users or any other entity that obtains such services, Network Elements, functionality or telephone numbering resources.
  - 1.63. "P.01 Transmission Grade Of Service (GOS)" means a trunk facility provisioning standard with the statistical probability of no more than one call in 100 blocked on initial attempt during the average busy hour.
  - 1.64. "Parties" means, jointly, United Telephone – Southeast, Inc and NA Communications, Inc., and no other entity, affiliate, subsidiary or assign, except as provided in Section 15.
  - 1.65. "Party" means either United Telephone – Southeast, Inc or NA Communications, Inc., and no other entity, affiliate, subsidiary or assign, except as provided in Section 15.
  - 1.66. "Percent Local Usage (PLU)" is a calculation which represents the ratio of the local and Information Access Traffic minutes to the sum of local, Information Access Traffic and intraLATA toll minutes between exchange carriers sent over Local Interconnection Trunks. Directory assistance, BLV/BLVI, 900, and 976 transiting calls from other exchange carriers and switched access calls are not included in the calculation of PLU.
  - 1.67. "Physical Point Of Interconnection (Physical POI)" is the physical point that establishes the technical interface, the test point, and the operational responsibility hand-off between CLEC and Sprint for the local interconnection of their networks.
  - 1.68. "Pre-Order Loop Qualification" ("Loop Qualification") is an OSS function that includes supplying loop qualification information to CLECs as part of the Pre-ordering Process. Examples of the type of information provided are:

- 1.68.1. Composition of the loop material, i.e. fiber optics, copper;
- 1.68.2. Existence, location and type of any electronic or other equipment on the loop, including but not limited to:
  - 1.68.2.1. Digital Loop Carrier (DLC) or other remote concentration devices;
  - 1.68.2.2. Feeder/distribution interfaces;
  - 1.68.2.3. Bridge taps;
  - 1.68.2.4. Load coils;
  - 1.68.2.5. Pair gain devices; or
  - 1.68.2.6. Disturbers in the same or adjacent binders.
- 1.68.3. Loop length which is an indication of the approximate loop length, based on a 26-gauge equivalent and is calculated on the basis of Distribution Area distance from the central office;
- 1.68.4. Wire gauge or gauges; and
- 1.68.5. Electrical parameters.
- 1.69. "Proprietary Information" shall have the same meaning as Confidential Information.
- 1.70. "Rate Center" means the geographic point and corresponding geographic area which are associated with one or more particular NPA-NXX codes which have been assigned to Sprint or CLEC for its provision of Basic Exchange Telecommunications Services. The "rate center point" is the finite geographic point identified by a specific V&H coordinate, which is used to measure distance-sensitive end user traffic to/from the particular NPA-NXX designations associated with the specific Rate Center. The "rate center area" is the exclusive geographic area identified as the area within which Sprint or CLEC will provide Basic Exchange Telecommunications Services bearing the particular NPA-NXX designations associated with the specific Rate Center. The Rate Center point must be located within the Rate Center area.
- 1.71. "Routing Point" means a location which Sprint or CLEC has designated on its own network as the homing (routing) point for traffic inbound to Basic Exchange Services provided by Sprint or CLEC which bear a certain NPA-NXX designation. The Routing Point is employed to calculate mileage measurements for the distance-sensitive transport element charges of Switched Access Services. Pursuant to Telcordia Practice BR 795-100-100, the Routing Point may be an "End Office" location, or a "LEC Consortium Point of Interconnection." Pursuant to that same Telcordia Practice, examples of the latter shall be designated by a common language location identifier (CLLI) code with (x)MD or X(x) in

positions 9, 10, 11, where (x) may be any alphanumeric A-Z or 0-9. The above referenced Telcordia document refers to the Routing Point as the Rating Point. The Rating Point/Routing Point need not be the same as the Rate Center Point, nor must it be located within the Rate Center Area, but must be in the same LATA as the NPA-NXX.

- 1.72. "Small Exchange Carrier Access Billing (SECAB)" means the document prepared by the Billing Committee of the OBF. The SECAB document, published by ATIS as Special Report SR OPT-001856, contains the recommended guidelines for the billing of access and other connectivity services.
- 1.73. "Selective Routing" is a service which automatically routes an E911 call to the PSAP that has jurisdictional responsibility for the service address of the telephone that dialed 911, irrespective of telephone company exchange or wire center boundaries.
- 1.74. "Signaling Transfer Point (STP)" means a signaling point that performs message routing functions and provides information for the routing of messages between signaling points within or between CCIS networks. A STP transmits, receives and processes CCIS messages.
- 1.75. "Splitter" is a device that divides the data and voice signals concurrently moving across the loop, directing the voice traffic through copper tie cables to the switch and the data traffic through another pair of copper tie cables to multiplexing equipment for delivery to the packet-switched network. The Splitter may be directly integrated into the DSLAM equipment or may be externally mounted.
- 1.76. "Street Index Guide (SIG)" is a database defining the geographic area of an E911 service. It includes an alphabetical list of the street names, high-low house number ranges, community names, and Emergency Service Numbers provided by the counties or their agents to Sprint.
- 1.77. "Switch" means a Central Office Switch as defined in this Part A.
- 1.78. "Synchronous Optical Network (SONET)" is an optical interface standard that allows interworking of transmission products from multiple vendors (i.e., mid-span meets). The base rate is 51.84 MHps (OC-1/STS-1 and higher rates are direct multiples of the base rate up to 1.22 GHps).
- 1.79. "Tandem Office Switches", "Tandem", and "Tandem Switching" describe Class 4 and/or Class 4/5 switches which are used to connect and switch trunk circuits between and among end office switches and other tandems.
- 1.80. "Tariff" means a filing made at the state or federal level for the provision of a telecommunications service by a telecommunications carrier that provides for the terms, conditions and pricing of that service. Such filing may be required or voluntary and may or may not be specifically approved by the Commission or FCC.



- 1.81. "Technically Feasible" refers solely to technical or operational concerns, rather than economic, space, or site considerations.
- 1.82. "Telecommunications" is as defined in the Act.
- 1.83. "Telecommunications Carrier" is as defined in the Act.
- 1.84. "Telecommunication Services" is as defined in the Act.
- 1.85. "Transit Service" means the delivery of Local or non-Local Traffic by Sprint or CLEC, that originated on one Party's network, transited through the other Party's network, and terminated to a third party Telecommunications Carrier's network.
- 1.86. "Transit Traffic" means Local or non-Local traffic that originated on one Party's network, transited through the other Party's network, and terminated to a third party Telecommunications Carrier's network.
- 1.87. "Virtual Point of Interconnection (Virtual POI)" is the point established in a Sprint local calling area (different from the Sprint local calling area where the Physical POI is located) that delineates where CLEC's transport obligations begin.
- 1.88. "Wholesale Service" means Telecommunication Services that Sprint provides at retail to subscribers who are not telecommunications carriers as set forth in 47 USC § 251(c)(4) which Sprint provides to resellers at a wholesale rate.
- 1.89. "Wire Center" denotes a building or space within a building which serves as an aggregation point on a given carrier's network, where transmission facilities and circuits are connected or switched. Wire center can also denote a building in which one or more central offices, used for the provision of Basic Exchange Services and access services, are located. However, for purposes of Expanded Interconnection Service, Wire Center shall mean those points eligible for such connections as specified in the FCC Docket No. 91-141, and rules adopted pursuant thereto.
- 1.90. "xDSL" is a generic term for a new series of high speed transmission protocols, equipment, and services designed to operate over copper wire. This series includes but is not limited to ADSL, VDSL, SDSL, and others.

## **PART B – GENERAL TERMS AND CONDITIONS**

### **2. SCOPE OF THIS AGREEMENT**

- 2.1. This Agreement, including Parts A through J, specifies the rights and obligations of each Party with respect to the establishment, purchase, and sale of Local Interconnection, resale of Telecommunications Services and Unbundled Network Elements. Certain terms used in this Agreement shall have the meanings defined in PART A -- DEFINITIONS, or as otherwise elsewhere defined throughout this Agreement. Other terms used but not defined herein will have the meanings ascribed to them in the Act, in the FCC's, and in the Commission's Rules and Regulations. PART B sets forth the general terms and conditions governing this Agreement. The remaining Parts set forth, among other things, descriptions of the services, pricing, technical and business requirements, and physical and network security requirements.
- 2.2. Subject to 3.2, Sprint may discontinue any interconnection arrangement Telecommunications Service or Network Element provided or required hereunder after providing CLEC reasonable notice as required by law. Sprint agrees to cooperate with CLEC and/or the appropriate regulatory body in any transition resulting from such discontinuation of service and to minimize the impact to customers which may result from such discontinuance of service.
- 2.3. Sprint shall provide notice of network changes and upgrades in accordance with §§ 51.325 through 51.335 of Title 47 of the Code of Federal Regulations.

### **3. REGULATORY APPROVALS**

- 3.1. This Agreement, and any amendment or modification hereof, will be submitted to the Commission for approval in accordance with § 252 of the Act within thirty (30) days after obtaining the last required Agreement signature. Sprint and CLEC shall use their best efforts to obtain approval of this Agreement by any regulatory body having jurisdiction over this Agreement. In the event any governmental authority or agency rejects any provision hereof, the Parties shall negotiate promptly and in good faith such revisions as may reasonably be required to achieve approval.
- 3.2. The Parties acknowledge that the respective rights and obligations of each Party as set forth in this Agreement are based on the texts of the Act and the rules and regulations promulgated thereunder by the FCC and the Commission as of the Effective Date ("Applicable Rules"). In the event of any amendment of the Act, any effective legislative action or any effective regulatory or judicial order, rule, regulation, arbitration award, dispute resolution procedures under this Agreement or other legal action purporting to apply the provisions of the Act to the Parties or in which the court, FCC or the Commission makes a generic determination that is generally applicable which revises, modifies or reverses the Applicable Rules (individually and collectively, "Amended Rules"), either Party may, by providing

written notice to the other Party, require that the affected provisions of this Agreement be renegotiated in good faith and this Agreement shall be amended accordingly to reflect the pricing, terms and conditions of each such Amended Rules relating to any of the provisions in this Agreement.

- 3.3. On February 20, 2003, the FCC adopted rules concerning incumbent LECs' obligations to make elements of their networks available on an unbundled basis at its open meeting. *In the Matter of the Review of the Section 251 Unbundling Obligations of Incumbent Local Exchange Carriers*, Docket No. CC 01-338. The Parties agree that any effective regulatory order, rule or regulation issued as a result of such open meeting shall constitute a revision or modification of the Applicable Rules and either Party may request that this Agreement be renegotiated in good faith to reflect such Amended Rules. Should the Parties be unable to reach agreement with respect to the appropriate modifications to this Agreement within thirty (30) days, either party may invoke the Dispute Resolution provisions of this Agreement.
- 3.4. Notwithstanding any other provision of this Agreement to the contrary §3.2 hereof shall control. Any rates, terms or conditions thus developed or modified shall be substituted in place of those previously in effect and shall be deemed to have been effective under this Agreement as of the effective date established by the Amended Rules, whether such action was commenced before or after the Effective Date of this Agreement. Should the Parties be unable to reach agreement with respect to the applicability of such order or the resulting appropriate modifications to this Agreement, either Party may invoke the Dispute Resolution provisions of this Agreement, it being the intent of the Parties that this Agreement shall be brought into conformity with the then current obligations under the Act as determined by the amended rules.
- 3.5. If either Party enters into an agreement ("the Other Agreement") approved by the Commission pursuant to section 252 of the Act which provides for provision of an interconnection arrangement, service, or network element covered in this Agreement to another requesting Telecommunications carrier, including itself or its affiliate, such Party shall make available to the other Party such interconnection, service, or network element upon the same terms and conditions as those provided in the Other Agreement pursuant to section 252(i) of the Act.

#### **4. TERM AND TERMINATION**

- 4.1. This Agreement shall be deemed effective upon the Effective Date, provided however that if CLEC has any outstanding past due obligations to Sprint, this Agreement will not be effective until such time as any past due obligations with Sprint are paid in full. No order or request for services under this Agreement shall be processed before the Effective Date and approval of this agreement by the Tennessee Regulatory Authority.
- 4.2. Except as provided herein, Sprint and CLEC agree to provide service to each other on the terms of this Agreement for a period from the Effective Date through and including **March 31, 2005** (the "End Date").
- 4.3. In the event of either Party's material breach of any of the material terms or conditions hereof, including the failure to make any undisputed payment when due, the non-defaulting Party may terminate this Agreement in whole or in part provided that the non-defaulting Party so advises the defaulting Party in writing of the event of the alleged default and the defaulting Party does not remedy the alleged default or invoke the dispute resolution process within sixty (60) days after receiving written notice thereof.
- 4.4. Termination of this Agreement for any cause shall not release either Party from any liability which at the time of termination has already accrued to the other Party or which thereafter may accrue in respect to any act or omission prior to termination or from any obligation which is expressly stated herein to survive termination.
- 4.5. Notwithstanding the above, should Sprint sell or trade substantially all the assets in an exchange or group of exchanges that Sprint uses to provide Telecommunications Services, then Sprint may terminate this Agreement in whole or in part as to that particular exchange or group of exchanges upon ninety (90) days prior written notice.

#### **5. POST EXPIRATION INTERIM SERVICE ARRANGEMENTS**

- 5.1. In the event that this Agreement expires under §4.2, it is the intent of the Parties to provide in this Section for post-expiration interim service arrangements between the Parties so that service to their respective end users will not be interrupted should a new agreement not be consummated prior to the End Date. Therefore, except in the case of termination as a result of either Party's default under §4.3, or for termination upon sale under §4.5, services that had been available under this Agreement as of the End Date may continue uninterrupted after the End Date at the written request of either Party only under the terms of:
  - 5.1.1. a new agreement voluntarily entered into by the Parties, pending approval by the Commission; or

- 5.1.2. such standard terms and conditions or tariffs approved by and made generally available by the Commission, if they exist at the time of expiration; or
  - 5.1.3. an existing agreement between Sprint and another carrier, adopted by CLEC for the remaining term of that agreement. Subject to Section 5.2, if neither §5.1.1 nor 5.1.2 are in effect, and CLEC fails to designate an agreement under this subsection, then Sprint may designate such agreement.
- 5.2. In the event that this Agreement expires under §4.2, and at the time of expiration, the Parties are actually in negotiations for a new agreement or in arbitration or mediation before the appropriate Commission or FCC under §252 of the Act, then at the request of either Party, the Parties shall provide each other services after the End Date under the same terms as the expired Agreement. Service under these terms will continue in effect only until the earlier to occur of (i) one year from the End Date, or (ii) the issuance of an order, whether a final non-appealable order or not, by the Commission or FCC, approving an agreement resulting from the resolution of the issues set forth in such arbitration or mediation.

## **6. CHARGES AND PAYMENT**

- 6.1. In consideration of the services provided under this Agreement, each Party shall pay the charges set forth in Part C for the services it receives, subject to the provisions of §§3 hereof. The billing and payment procedures for charges incurred by CLEC hereunder are set forth in Part I.
- 6.2. In addition to any other applicable charges under this Section 6 and Part C, if CLEC purchases unbundled Local Switching elements, CLEC shall pay Sprint for intrastate toll minutes of use traversing such unbundled Local Switching elements, intrastate carrier common line and interconnection charges as outlined on Part C hereto and any explicit intrastate universal service mechanism based on access charges.
- 6.3. Subject to the terms of this Agreement, the Parties shall pay invoices by the due date shown on the invoice or if no due date is shown on the invoice, the Parties shall pay within 30 days of the Bill Date. For invoices not paid when due, late payment charges will be assessed under § 6.6. If the payment due date is a Saturday, Sunday or a designated bank holiday, payment shall be made the next business day.
- 6.4. If a Party has any dispute associated with the invoice, the disputing Party shall submit to the billing Party a written, itemized dispute within sixty (60) calendar days of receipt of the invoice; except that in the event, following a Party's receipt of any such invoice, the billing Party fails for any reason to provide the billed Party access to data and records upon the billed Party's request or as otherwise required by this Agreement, the foregoing sixty (60) day period shall

automatically extend to sixty (60) days following the billing Party's provision of such data and/or records to the billed Party. The Parties agree to resolve billing disputes under the Dispute Resolution Process as provided in Section 23. Billed amounts for which written, itemized disputes or claims have been filed are not due for payment until such disputes or claims have been resolved in accordance with the provisions governing dispute resolution of this Agreement. Itemized, written disputes must be filed with Sprint's National Exchange Access Center ("NEAC") or CLEC's **Revenue Assurance Department**.

- 6.5 All undisputed amounts must be paid in full and any adjustments relating to a disputed amount shall be reflected on the Statement issued after resolution. In the event the dispute is resolved in favor of the billing Party, interest, at the late payment rate set forth in Section 6.6, shall be assessed back to the due date of the original bill. If a Party withholds any amount from payment, the withholding Party must send either an itemized dispute or written notice of intent to submit an itemized dispute under Section 6.4 with the remittance of the remainder of the invoice. Payment of the amount due in full does not waive a Party's right to submit a dispute under Section 6.4 or Section 23.
- 6.6 Except for amounts disputed under Section 6.4, all charges and fees not paid by one Party to the other Party within thirty (30) days of the bill date shall bear late payment penalties, from and after the expiration of that 30 day period of the lesser of one and one-half percent (1.5%) per month (calculated on the basis of a 30 day month for payments during any month) or the maximum rate allowed by law for commercial transactions, of the balance due, compounded monthly, until the amount due is paid in full. Payments shall be applied to the oldest outstanding amount first.

## 7. AUDITS

- 7.1. Each Party to this Agreement will be responsible for the accuracy and quality of its data as submitted to the other Party involved. Subject to each Party's reasonable security requirements and except as may be otherwise specifically provided in this Agreement, either Party, at its own expense, may audit the other Party's books, records and other documents directly related to billing and invoicing once in any twelve (12) month period for the purpose of evaluating the accuracy of the other Party's billing and invoicing. Either party (the "Requesting Party") may perform one (1) Audit per twelve (12) month period commencing with the Effective Date, with the assistance of the other Party, which will not be unreasonably withheld. The Audit period will include no more than the preceding twelve (12) month period as of the date of the Audit request.
- 7.2 Upon thirty (30) days written notice by the Requesting Party to Audited Party, Requesting Party shall have the right through its authorized representative to make an Audit, during normal business hours, of any records, accounts and processes

which contain information bearing upon the billing and invoicing of the services provided under this Agreement. Within the above-described thirty (30) day period, the Parties shall reasonably agree upon the scope of the Audit, the documents and processes to be reviewed, and the time, place and manner in which the Audit shall be performed. Audited Party agrees to provide Audit support, including appropriate access to and use of Audited Party's facilities (e.g.: conference rooms, telephones, copying machines).

- 7.3. Each Party shall bear its own expenses in connection with the conduct of the Audit. The reasonable cost of special data extraction required by the Requesting Party to conduct the Audit will be paid for by the Requesting Party. For purposes of this § 7.3, a "Special Data Extraction" shall mean the creation of an output record or informational report (from existing data files) that is not created in the normal course of business. If any program is developed to Requesting Party's specifications and at Requesting Party's expense, Requesting Party shall specify at the time of request whether the program is to be retained by Audited Party for reuse for any subsequent Audit.
- 7.4. Adjustments based on the audit findings may be applied to the twelve (12) month period included in the audit. Adjustments, credits or payments to compensate for any errors or omissions which are disclosed by such Audit and are agreed to by the Parties shall be made and any corrective action shall commence within thirty (30) days from requesting Party's receipt of the final audit report. Interest shall be calculated in accordance with § 6.5 above.
- 7.5. Neither such right to audit nor the right to receive an adjustment shall be affected by any statement to the contrary appearing on checks or otherwise, unless such statement expressly waiving such right appears in writing, is signed by the authorized representative of the Party having such right and is delivered to the other Party in a manner sanctioned by this Agreement.
- 7.6. This Section 7 shall survive expiration or termination of this Agreement for a period of one (1) year after expiration or termination of this Agreement

## **8. INTELLECTUAL PROPERTY RIGHTS**

- 8.1. Any intellectual property which originates from or is developed by a Party shall remain in the exclusive ownership of that Party. Except for a limited license to use patents or copyrights to the extent necessary for the Parties to use any facilities or equipment (including software) or to receive any service solely as provided under this Agreement, no license in patent, copyright, trademark or trade secret, or other proprietary or intellectual property right now or hereafter owned, controlled or licensable by a Party, is granted to the other Party or shall be implied or arise by estoppel.
- 8.2. Neither Party shall have any obligation to defend, indemnify or hold harmless, or acquire any license or right for the benefit of, except as required in FCC 00-139

Rel. April 27, 2000, CC Docket No. 96-98, or owe any other obligation or any liability to, the other Party based on or arising from any claim, demand, or proceeding by any third party alleging or asserting that the use of any circuit, apparatus or system, or the use of any software, or the performance of any service or method, or the provision or use of any facilities by either Party under this Agreement, constitutes direct or contributory infringement, or misuse or misappropriation of any patent, copyright, trademark, trade secret, or any other proprietary or intellectual property right of any third party.

- 8.3. Following notice of an infringement claim against Sprint based on the use by CLEC of a service or facility, CLEC shall at CLEC's expense, procure from the appropriate third parties the right to continue to use the alleged infringing intellectual property or if CLEC fails to do so within the lesser of six months of notice of an infringement claim or time period required by a Commission order or Sprint third party contract, Sprint may charge CLEC for such costs as permitted under a Commission order.

## **9. LIMITATION OF LIABILITY**

- 9.1. Except as otherwise set forth in this Agreement, neither Party shall be responsible to the other for any indirect, special, consequential or punitive damages, including (without limitation) damages for loss of anticipated profits or revenue or other economic loss in connection with or arising from anything said, omitted, or done hereunder (collectively "Consequential Damages"), whether arising in contract or tort, provided that the foregoing shall not limit a Party's obligation under Section 10 to indemnify, defend, and hold the other Party harmless against amounts payable to third parties. Except as otherwise set forth in Section 9.2 below, in no event shall one Party's liability to the other Party for a service outage exceed an amount equal to the proportionate charge for the service(s) or unbundled element(s) provided for the period during which the service was affected.

- 9.2. Nothing contained in Section 9.1 shall exclude or limit liability:



- 9.2.1. For damages arising out of or resulting from bodily injury to or death of any person, or damage to, or destruction or loss of, tangible real and/or personal property of any person, or toxic or hazardous substances, to the extent such damages are otherwise recoverable under Applicable Law;
- 9.2.2. For damages arising out of or resulting from a Party's willful or intentional conduct;
- 9.2.3. Under the financial incentive or remedy provisions of any service quality plan required by the FCC or Commission.

## 10. INDEMNIFICATION

- 10.1. Each Party agrees to indemnify and hold harmless the other Party from and against claims by third parties for damage to tangible personal or real property and/or personal injuries to the extent caused by the negligence or willful misconduct or omission of the indemnifying Party.
- 10.2. CLEC shall indemnify and hold harmless Sprint from all claims by CLEC's subscribers.
- 10.3. Sprint shall indemnify and hold harmless CLEC from all claims by Sprint's subscribers.
- 10.4. The indemnifying Party under this Section agrees to defend any suit brought against the other Party either individually or jointly with the indemnified Party for any such loss, injury, liability, claim or demand.
- 10.5. The indemnified Party agrees to notify the other Party promptly, in writing, of any written claims, lawsuits, or demands for which it is claimed that the indemnifying Party is responsible under this Section and to cooperate in every reasonable way to facilitate defense or settlement of claims.
- 10.6. The indemnifying Party shall have complete control over defense of the case and over the terms of any proposed settlement or compromise thereof. The indemnifying Party shall not be liable under this Section for settlement by the indemnified Party of any claim, lawsuit, or demand, if the indemnifying Party has not approved the settlement in advance, unless the indemnifying Party has had the defense of the claim, lawsuit, or demand tendered to it in writing and has failed to promptly assume such defense. In the event of such failure to assume defense, the indemnifying Party shall be liable for any reasonable settlement made by the indemnified Party without approval of the indemnifying Party.
- 10.7. When the lines or services of other companies and CLECs are used in establishing connections to and/or from points not reached by a Party's lines, neither Party shall be liable for any act or omission of the other companies or carriers.
- 10.8. In addition to its indemnity obligations hereunder, each Party shall, to the extent allowed by law or Commission Order, provide, in its tariffs and contracts with its

subscribers that relate to any Telecommunications Services provided or contemplated under this Agreement, that in no case shall such Party or any of its agents, contractors or others retained by such Party be liable to any subscriber or third party for

10.8.1. any loss relating to or arising out of this Agreement, whether in contract or tort, that exceeds the amount such Party would have charged the applicable subscriber for the service(s) or function(s) that gave rise to such loss, and

10.8.2. Consequential Damages (as defined in Section 9 above).

## **11. BRANDING**

11.1. CLEC shall provide the exclusive interface to CLEC subscribers, except as CLEC shall otherwise specify for the reporting of trouble or other matters identified by CLEC for which Sprint may directly communicate with CLEC subscribers. In those instances where CLEC requests that Sprint personnel interface with CLEC subscribers, such Sprint personnel shall inform the CLEC subscribers that they are representing CLEC, or such brand as CLEC may specify.

11.2. Other business materials furnished by Sprint to CLEC subscribers shall bear no corporate name, logo, trademark or tradename.

11.3. Except as specifically permitted in this Agreement or in writing by a Party, in no event shall either Party provide information to the other Party's subscribers about the other Party or the other Party's products or services.

11.4. Sprint shall share pertinent details of Sprint's training approaches related to branding with CLEC to be used by Sprint to assure that Sprint meets the branding requirements agreed to by the Parties.

11.5. This Section 11 shall not confer on either Party any rights to the service marks, trademarks and/or trade names owned by or used in connection with services by the other Party, except as expressly permitted in writing by the other Party.

## **12. REMEDIES**

12.1. Except as otherwise provided herein, all rights of termination, cancellation or other remedies prescribed in this Agreement, or otherwise available, are cumulative and are not intended to be exclusive of other remedies to which the injured Party may be entitled in case of any breach or threatened breach by the other Party of any provision of this Agreement, and use of one or more remedies shall not bar use of any other remedy for the purpose of enforcing the provisions of this Agreement.

## **13. CONFIDENTIALITY AND PUBLICITY**

- 13.1. All information which is disclosed by one Party ("Disclosing Party") to the other ("Recipient") in connection with this Agreement, or acquired in the course of performance of this Agreement, shall be deemed confidential and proprietary to the Disclosing Party and subject to this Agreement, such information including but not limited to, orders for services, usage information in any form, and CPNI as that term is defined by the Act and the rules and regulations of the FCC ("Confidential and/or Proprietary Information").
- 13.2. During the term of this Agreement, and for a period of one (1) year thereafter, Recipient shall
  - 13.2.1. use Confidential and/or Proprietary Information only for the purpose of performing under this Agreement,
  - 13.2.2. hold Confidential and/or Proprietary Information in confidence and disclose it only to employees or agents who have a need to know it in order to perform under this Agreement, and
  - 13.2.3. safeguard Confidential and/or Proprietary Information from unauthorized use or Disclosure using no less than the degree of care with which Recipient safeguards its own Confidential Information.
- 13.3. Recipient shall have no obligation to safeguard Confidential Information
  - 13.3.1. which was in the Recipient's possession free of restriction prior to its receipt from Disclosing Party,
  - 13.3.2. which becomes publicly known or available through no breach of this Agreement by Recipient,
  - 13.3.3. which is rightfully acquired by Recipient free of restrictions on its Disclosure, or
  - 13.3.4. which is independently developed by personnel of Recipient to whom the Disclosing Party's Confidential Information had not been previously disclosed.
- 13.4. Recipient may disclose Confidential Information if required by law, a court, or governmental agency, provided that Disclosing Party has been notified of the requirement promptly after Recipient becomes aware of the requirement, and provided that Recipient undertakes all lawful measures to avoid disclosing such information until Disclosing Party has had reasonable time to obtain a protective order. Recipient agrees to comply with any protective order that covers the Confidential Information to be disclosed.

- 13.5 Each Party agrees that in the event of a breach of this Section 13 by Recipient or its representatives, Disclosing Party shall be entitled to equitable relief, including injunctive relief and specific performance. Such remedies shall not be exclusive, but shall be in addition to all other remedies available at law or in equity.
- 13.6 Unless otherwise agreed in writing, neither Party shall publish or use the other Party's logo, trademark, service mark, name, language, pictures, symbols or words from which the other Party's name may reasonably be inferred or implied in any product, service, advertisement, promotion, or any other publicity matter, except that nothing in this paragraph shall prohibit a Party from engaging in valid comparative advertising. This § 13.5 shall confer no rights on a Party to the service marks, trademarks and trade names owned or used in connection with services by the other Party or its Affiliates, except as expressly permitted by the other Party.
- 13.7 Neither Party shall produce, publish, or distribute any press release nor other publicity referring to this Agreement, without the prior written approval of the other Party. Each Party shall obtain the other Party's prior approval before discussing this Agreement in any press or media interviews. In no event shall either Party mischaracterize the contents of this Agreement in any public statement or in any representation to a governmental entity or member thereof. However, nothing in this Agreement precludes a party from providing accurate information in direct response to an end-users question.
- 13.8 Except as otherwise expressly provided in this Section 13, nothing herein shall be construed as limiting the rights of either Party with respect to its customer information under any applicable law, including without limitation § 222 of the Act.

#### **14. DISCLAIMER OF WARRANTIES**

- 14.1 EXCEPT AS SPECIFICALLY PROVIDED ELSEWHERE IN THIS AGREEMENT TO THE CONTRARY, NEITHER PARTY MAKES ANY REPRESENTATIONS OR WARRANTIES, EXPRESS OR IMPLIED, WITH RESPECT TO QUALITY, FUNCTIONALITY OR CHARACTERISTICS OF THE SERVICES PROVIDED PURSUANT TO THIS AGREEMENT, INCLUDING, BUT NOT LIMITED TO, IMPLIED WARRANTIES OF MERCHANTABILITY AND/OR FITNESS FOR A PARTICULAR PURPOSE. NO REPRESENTATION OR STATEMENT MADE BY EITHER PARTY OR ANY OF ITS AGENTS OR EMPLOYEES, ORAL OR WRITTEN, INCLUDING, BUT NOT LIMITED TO, ANY SPECIFICATIONS, DESCRIPTIONS OR STATEMENTS PROVIDED OR MADE SHALL BE BINDING UPON EITHER PARTY AS A WARRANTY.

#### **15. ASSIGNMENT AND SUBCONTRACT**

- 15.1 If any Affiliate of either Party succeeds to that portion of the business of such

Party that is responsible for, or entitled to, any rights, obligations, duties, or other interests under this Agreement, such Affiliate may succeed to those rights, obligations, duties, and interest of such Party under this Agreement. In the event of any such succession hereunder, the successor shall expressly undertake in writing to the other Party the performance and liability for those rights, obligations, duties and interests as to which it is succeeding a Party to this Agreement. Thereafter, the successor Party shall be deemed CLEC or Sprint with respect to rights, obligations, duties and interests expressly undertaken and the original Party shall be relieved of such rights, obligations, duties, and interests, except for matters arising out of events occurring prior to the date of such undertaking.

- 15.2. Except as provided in § 15.1, any assignment of this Agreement or of the work to be performed, in whole or in part, or of any other interest of a Party hereunder, without the other Party's written consent, which consent shall not be unreasonably withheld or delayed, shall be void.

## **16. GOVERNING LAW**

- 16.1. This Agreement shall be governed by and construed in accordance with the Act, the FCC's Rules and Regulations and orders of the Commission, except insofar as state law may control any aspect of this Agreement, in which case the domestic laws of the Commission's state, without regard to its conflicts of laws principles, shall govern.

## **17. RELATIONSHIP OF PARTIES**

- 17.1. It is the intention of the Parties that each Party shall be an independent contractor and nothing contained herein shall constitute the Parties as joint venturers, partners, employees or agents of one another, and neither Party shall have the right or power to bind or obligate the other.

## **18. NO THIRD PARTY BENEFICIARIES**

- 18.1. The provisions of this Agreement are for the benefit of the Parties hereto and not for any other person, and this Agreement shall not provide any person not a party hereto with any remedy, claim, liability, reimbursement, right of action, or other right in excess of those existing without reference hereto. This shall not be construed to prevent either Party from providing its Telecommunications Services to other carriers.

## **19. NOTICES**

- 19.1. Except as otherwise provided herein, all notices or other communication hereunder shall be deemed to have been duly given when made in writing and delivered in person or deposited in the United States mail, certified mail, postage prepaid, return receipt requested and addressed as follows:

If to Sprint:

Director  
Local Carrier Markets  
Sprint  
6480 Sprint Parkway  
Mailstop KSOPHM0310-  
3A453  
Overland Park, KS 66251

If to  
CLEC:

Steve Goodman  
Director – Regulatory  
401 Spring Lane  
Suite 300  
Waynesboro, VA 22980  
Tel: (540) 946-3500  
Fax: (540) 946-3599  
E-mail Address:  
goodmans@NTELOS.com

- 19.2. If delivery, other than certified mail, return receipt requested, is used to give notice, a receipt of such delivery shall be obtained and the notice shall be effective when received. If delivery via certified mail, return receipt requested, is used, notice shall be effective when sent. The address to which notices or communications may be given to either Party may be changed by written notice given by such Party to the other pursuant to this Section 19.

## **20. WAIVERS**

- 20.1. No waiver of any provisions of this Agreement and no consent to any default under this Agreement shall be effective unless the same shall be in writing and properly executed by or on behalf of the Party against whom such waiver or consent is claimed.
- 20.2. No course of dealing or failure of any Party to strictly enforce any term, right, or condition of this Agreement in any instance shall be construed as a general waiver or relinquishment of such term, right or condition.
- 20.3. Waiver by either Party of any default by the other Party shall not be deemed a waiver of any other default.

## **21. SURVIVAL**

- 21.1. Termination of this Agreement, or any part hereof, for any cause shall not release either Party from any liability which at the time of termination had already accrued to the other Party or which thereafter accrues in any respect to any act or omission occurring prior to the termination or from an obligation which is expressly stated in this Agreement to survive termination including but not limited to §§ 6, 7, 8, 9, 10, 13, 18, 20, and 23.

## **22. FORCE MAJEURE**

- 22.1. Neither Party shall be held liable for any delay or failure in performance of any part of this Agreement from any cause beyond its control and without its fault or negligence, such as acts of God, acts of civil or military authority, embargoes, epidemics, war, terrorist acts, riots, insurrections, fires, explosions, earthquakes, nuclear accidents, floods, power blackouts, strikes, work stoppage affecting a supplier or unusually severe weather. No delay or other failure to perform shall be excused pursuant to this Section 22 unless delay or failure and consequences thereof are beyond the control and without the fault or negligence of the Party claiming excusable delay or other failure to perform. Subject to Section 4 hereof, in the event of any such excused delay in the performance of a Party's obligation(s) under this Agreement, the due date for the performance of the original obligation(s) shall be extended by a term equal to the time lost by reason of the delay. In the event of such delay, the delayed Party shall perform its obligations at a performance level no less than that which it uses for its own operations. In the event of such performance delay or failure by Sprint, Sprint agrees to resume performance in a nondiscriminatory manner and not favor its own provision of Telecommunications Services above that of CLEC.

## **23. DISPUTE RESOLUTION**

- 23.1. The Parties recognize and agree that the Commission has continuing jurisdiction to implement and enforce all terms and conditions of this Agreement. Accordingly, the Parties agree that any dispute arising out of or relating to this Agreement that the Parties themselves cannot resolve may be submitted to the Commission for resolution. The Parties agree to seek expedited resolution by the Commission, and shall request that resolution occur in no event later than sixty (60) days from the date of submission of such dispute. If the Commission appoints an expert(s) or other facilitator(s) to assist in its decision making, each Party shall pay half of the fees and expenses so incurred. During the Commission proceeding each Party shall continue to perform its obligations under this Agreement. This provision shall not preclude the Parties from seeking relief available in any other forum. Nothing in this Section is intended or shall be interpreted to require either Party to perform any unlawful act, or to violate any law or regulation.
- 23.2. If any matter is subject to a bona fide dispute between the Parties, the disputing Party shall within thirty (30) days of the event giving rise to the dispute, or within thirty (30) days of the date a Party should have reasonably discovered the event giving rise to the dispute whichever is later, give written notice to the other Party of the dispute and include in such notice the specific details and reasons for disputing each item. Notwithstanding the foregoing, nothing in the Section 23 waives or limits either Party's right to bring a claim under the Act, which claim is subject to the statute of limitations established in Section 415 of the Act, if appropriate.
- 23.3. If the Parties are unable to resolve the issues related to the dispute in the normal

course of business within thirty (30) days after delivery of notice of the Dispute, to the other Party, the dispute shall be escalated to a designated representative who has authority to settle the dispute and who is at a higher level of management than the persons with direct responsibility for administration of this Agreement. The designated representatives shall meet as often as they reasonably deem necessary in order to discuss the dispute and negotiate in good faith in an effort to resolve such dispute, but in no event shall such resolution exceed 60 days from the initial notice. The specific format for such discussions will be left to the discretion of the designated representatives, provided, however, that all reasonable requests for relevant information made by one Party to the other Party shall be honored.

- 23.4. After such period either Party may file a complaint with the FCC, or the Commission, or a court of competent jurisdiction. Notwithstanding the foregoing, either Party may seek immediate relief from the FCC, Commission, or a court of competent jurisdiction for end-user, service-affecting disputes.

## **24. COOPERATION ON FRAUD**

- 24.1. The Parties agree that they shall cooperate with one another to investigate, minimize and take corrective action in cases of fraud. The Parties' fraud minimization procedures are to be cost effective and implemented so as not to unduly burden or harm one Party as compared to the other.

## **25. TAXES**

- 25.1 Any Federal, state or local excise, license, sales, use, or other taxes or tax-like charges (excluding any taxes levied on income) resulting from the performance of this Agreement shall be borne by the Party upon which the obligation for payment is imposed under applicable law, even if the obligation to collect and remit such taxes is placed upon the other Party. Any such taxes shall be shown as separate items on applicable billing documents between the Parties. The Party obligated to collect and remit taxes shall do so unless the other Party provides such Party with the required evidence of exemption. The Party so obligated to pay any such taxes may contest the same in good faith, at its own expense, and shall be entitled to the benefit of any refund or recovery, provided that such Party shall not permit any lien to exist on any asset of the other Party by reason of the contest. The Party obligated to collect and remit taxes shall cooperate fully in any such contest by the other Party by providing records, testimony and such additional information or assistance as may reasonably be necessary to pursue the contest.

## **26. AMENDMENTS AND MODIFICATIONS**

- 26.1 No provision of this Agreement shall be deemed waived, amended or modified by either Party unless such a waiver, amendment or modification is in writing, dated, and signed by both Parties.



**27. SEVERABILITY**

27.1. Subject to § 3.2, if any part of this Agreement is held to be invalid for any reason, such invalidity will affect only the portion of this Agreement which is invalid. In all other respects this Agreement will stand as if such invalid provision had not been a part thereof, and the remainder of the Agreement shall remain in full force and effect.

**28. HEADINGS NOT CONTROLLING**

28.1. The headings and numbering of Articles, Sections, Parts in this Agreement are for convenience only and shall not be construed to define or limit any of the terms herein or affect the meaning or interpretation of this Agreement.

**29. ENTIRE AGREEMENT**

29.1. This Agreement, including all Parts and subordinate documents attached hereto or referenced herein, all of which are hereby incorporated by reference herein, constitute the entire matter thereof, and supersede all prior oral or written agreements, representations, statements, negotiations, understandings, proposals, and undertakings with respect to the subject matter thereof.

**30. COUNTERPARTS**

30.1. This Agreement may be executed in counterparts. Each counterpart shall be considered an original and such counterparts shall together constitute one and the same instrument.

**31. SUCCESSORS AND ASSIGNS**

31.1. This Agreement shall be binding upon, and inure to the benefit of, the Parties hereto and their respective successors and permitted assigns.

**32. IMPLEMENTATION PLAN**

32.1. This Agreement sets forth the overall standards of performance for services, processes, and systems capabilities that the Parties will provide to each other, and the intervals at which those services, processes and capabilities will be provided. The Parties understand that the arrangements and provision of services described in this Agreement shall require technical and operational coordination between the Parties. Accordingly, the Parties agree to form a team (the "Implementation Team") that shall develop and identify those processes, guidelines, specifications, standards and additional terms and conditions necessary to support the terms of this Agreement. Each Party shall designate, in writing, no more than four (4) persons to be permanent members of the Implementation Team; provided that either Party may include in meetings or activities such technical specialists or other individuals as may be reasonably required to address a specific task, matter

or subject. Each Party may replace its representatives by delivering written notice thereof to the other Party.

- 32.2. The agreements reached by the Implementation Team shall be documented in an operations manual (the "Implementation Plan") within one hundred-twenty (120) days of both Parties having designated members of the Implementation Team. The Implementation Plan shall address the following matters, and may include any other matters agreed upon by the Implementation Team:

- 32.2.1. the respective duties and responsibilities of the Parties with respect to the administration and maintenance of the interconnections (including signaling) specified in Part 3 and the trunk groups specified in Part 4 and, including standards and procedures for notification and discoveries of trunk disconnects;
- 32.2.2. disaster recovery and escalation provisions;
- 32.2.3. access to Operations Support Systems functions provided hereunder, including gateways and interfaces;
- 32.2.4. escalation procedures for ordering, provisioning, billing, and maintenance;
- 32.2.5. single points of contact for ordering, provisioning, billing, and maintenance;
- 32.2.6. service ordering and provisioning procedures, including provision of the trunks and facilities;
- 32.2.7. provisioning and maintenance support;
- 32.2.8. conditioning and provisioning of collocation space and maintenance of Virtually Collocated equipment;
- 32.2.9. procedures and processes for Directories and Directory Listings;
- 32.2.10. billing processes and procedures;
- 32.2.11. network planning components including time intervals;
- 32.2.12. joint systems readiness and operational readiness plans;
- 32.2.13. appropriate testing of services, equipment, facilities and Network Elements;
- 32.2.14. monitoring of inter-company operational processes;
- 32.2.15. procedures for coordination of local PIC changes and processing;
- 32.2.16. physical and network security concerns;

- 32.2.17. Completion of CLEC Checklist and supporting documentation to establish a billing account; and
- 32.2.18. such other matters specifically referenced in this Agreement that are to be agreed upon by the Implementation Team and/or contained in the Implementation Plan.
- 32.3. The Implementation Plan may be amended from time to time by the Implementation Team, as the team deems appropriate. Unanimous written consent of the permanent members of the Implementation Team shall be required for any action of the Implementation Team. If the Implementation Team is unable to act, the existing provisions of the Implementation Plan shall remain in full force and effect.

### **33. FEDERAL JURISDICTIONAL AREAS**

- 33.1. Section 1, §8, Clause 17 of the United States Constitution provides the authority to Congress to exercise exclusive jurisdiction over areas and structures used for military purposes (Federal Enclaves). Thus, Telecommunications Services to such Federal Enclaves are not subject to the jurisdiction of the Commission. The Parties agree that Services provided within Federal Enclaves are not within the scope of this Agreement.

## **PART C - GENERAL PRINCIPLES**

### **34. USE OF FACILITIES.**

34.1. In situations where the CLEC has the use of the facilities (i.e., local loop) to a specific customer premise, either through resale of local service or the lease of the local loop as an Unbundled Network Element, and Sprint receives a good faith request for service from a customer at the same premise, the following will apply:

34.1.1. Sprint shall notify the CLEC by phone through the designated CLEC contact and via fax that it has had a request for service at the premise location that is currently being served by the CLEC;

34.1.2. If available to Sprint, Sprint shall include the name and address of the party receiving service at such locations, but at a minimum shall provide local service address location information;

34.1.3. So long as Sprint follows the methods prescribed by the FCC for carrier change verification with the customer at the premises involved, Sprint shall be free to use the facilities in question upon the expiration of 24 hours following the initial phone and/or LSR notification from Sprint to CLEC Sprint shall issue a disconnect order with respect to the CLEC service at that location.

### **35. PRICE SCHEDULE**

35.1. All prices under this agreement are set forth in Table One of this Part C.

35.2. Subject to the provisions of Part B, Section 3 of this Agreement, all rates provided under this Agreement shall remain in effect for the term of this Agreement.

### **36. LOCAL SERVICE RESALE**

36.1. The rates that CLEC shall pay to Sprint for Local Resale are as set forth in Table 1 of this Part and shall be applied consistent with the provisions of Part D of this Agreement.

### **37. INTERCONNECTION AND RECIPROCAL COMPENSATION**

37.1 Local Traffic will be compensated at the contract rate set forth in Table 1. Information Access Traffic will be compensated at the rates established by the FCC as set forth in Table 1. The rates shall be applied consistent with the provisions of Part F of this Agreement.

37.1.1 Traffic delivered to a Party that exceeds a 3:1 ratio of terminating to originating traffic is presumed to be Information Access Traffic. This presumption may be rebutted by either Party consistent with the provisions of the FCC's *Order on Remand and Report and Order*, FCC 01-131, CC Dockets No. 96-98 and 99-68, adopted April 18, 2001, effective June 14,

2001 (the "ISP Compensation Order").

37.1.2. Compensation for Information Access Traffic is subject to the growth cap. The growth cap will be applied as follows.

37.1.2.1. In 2001, the originating Party will compensate the terminating Party for Information Access Traffic up to a ceiling that is equal to, on an annualized basis, the number of ISP-bound minutes for which the terminating Party was entitled to compensation during the first quarter of 2001, plus an additional ten percent growth factor.

37.1.2.2. In 2002, the originating Party will compensate the terminating Party for Information Access Traffic up to a ceiling of the number of ISP-bound minutes for which the terminating Party was entitled to compensation during 2001, plus an additional ten percent growth factor.

37.1.2.3. In 2003, the originating Party will compensate the terminating Party for Information Access Traffic up to the number of ISP-bound minutes for which the terminating Party was entitled to compensation during 2002.

37.2. Compensation for the termination of toll traffic and the origination of 800 traffic between the interconnecting Parties shall be based on the applicable access charges in accordance with FCC and Commission Rules and Regulations and consistent with the provisions of Part F of this Agreement.

37.3. INP is available in all Sprint service areas where LNP is not available. Once LNP is available, all INP arrangements will be converted to LNP. Where INP is available and a toll call is completed through Sprint's INP arrangement (e.g., remote call forwarding) to CLEC's subscriber, CLEC shall be entitled to applicable access charges in accordance with the FCC and Commission Rules and Regulations. If a national standard billing method has not been developed for a CLEC to directly bill a carrier access for a toll call that has been completed using interim number portability, then the INP Rate specific to Access Settlements in this Part C will be used.

37.3.1. The ported Party shall charge the porting Party on a per line basis using the INP Rate specific to Access Settlements in lieu of any other compensation charges for terminating such traffic. The traffic that is not identified as subject to INP will be compensated as local interconnection as set forth in § 37.1

37.3.2. CLEC shall pay a transit rate, comprised of the transport and tandem rate elements, as set forth in Table 1 of this Part when CLEC uses a Sprint access tandem to terminate a local call to a third party LEC or another CLEC. Sprint shall pay CLEC a transit rate equal to the Sprint rate

referenced above when Sprint uses a CLEC switch to terminate a local call to a third party LEC or another CLEC.

37.4. CLEC will identify the Percent Local Usage (PLU) factor on each interconnection order to identify its "Local Traffic" and "Information Access Traffic", as defined herein, for reciprocal compensation purposes. Sprint may request CLEC's traffic study documentation of the PLU at any time to verify the factor, and may compare the documentation to studies developed by Sprint. Should the documentation indicate that the factor should be changed, Sprint will provide CLEC prior written notice of its determination to change the factor. CLEC may dispute any such change through the Dispute Resolution procedures in Section 23. The Parties agree that any such changes to the PLU factor will only be applied retroactively to traffic for the 90 days immediately preceding Sprint's request for CLEC's traffic study documentation to verify the PLU factor. For traffic other than Transit Traffic, Local Traffic, and Information Access Traffic, except as provided above in Section 37.3, the Parties agree to exchange traffic and compensate one another based on the rates and elements included in each Party's access tariffs.

37.5. In those instances where Sprint is required to provide CLEC a PLU, CLEC may request Sprint's traffic study documentation of the PLU at any time to verify the factor, and may compare the documentation to studies developed by CLEC. Should the documentation indicate that the factor should be changed, CLEC will provide Sprint prior written notice of its determination to change the factor. Sprint may dispute any such change through the Dispute Resolution procedures in Section 23. The Parties agree that any such changes to the PLU factor will only be applied retroactively to traffic for the 90 days immediately preceding CLEC's request for Sprint's traffic study documentation to verify the PLU factor. For traffic other than Transit Traffic, Local Traffic, and Information Access Traffic, except as provided above in Section 37.3, the Parties agree to exchange traffic and compensate one another based on the rates and elements included in each Party's access tariffs.

## **38. SECURITY DEPOSIT**

38.1. Sprint reserves the right to secure the account with a suitable form of security deposit, unless satisfactory credit has already been established through twelve (12) consecutive months of current payments for carrier services to Sprint and all ILEC affiliates of Sprint in the State of Tennessee. A payment is not considered current in any month if it is made more than 30 days after the bill date.

38.2. Such security deposit shall take the form of cash or cash equivalent, an irrevocable letter of credit or other forms of security acceptable to Sprint.

38.3. If a security deposit is required on a new account, such security deposit shall be

made prior to inauguration of service. If the deposit relates to an existing account, the security deposit will be made prior to acceptance by Sprint of additional orders for service.

- 38.4. Such security deposit shall be two (2) months' estimated billings as calculated by Sprint, or twice the most recent month's invoices from Sprint for existing accounts. All security deposits will be subject to a minimum deposit level of \$10,000.
- 38.5. The fact that a security deposit has been made in no way relieves CLEC from complying with the billing and payment and discontinuance processes set forth in this Agreement.
- 38.6. Sprint reserves the right to increase, and CLEC agrees to increase, the security deposit requirements when Sprint's gross monthly billing to CLEC has increased beyond the level initially used to determine the security deposit.
- 38.7. Any security deposit shall be held by Sprint as a guarantee of payment of any charges for carrier services billed to CLEC, provided, however, Sprint may exercise its right to credit any cash deposit to outstanding amounts due on CLEC's account, or to demand payment from the issuing bank or bonding company of any irrevocable bank letter of credit, upon the occurrence of any one of the following events:
  - 38.7.1. when CLEC has undisputed balances due to Sprint that are more than thirty (30) days past due; or
  - 38.7.2. when this Agreement expires or terminates; provided that Sprint shall not be entitled to exercise this option if the Parties continue to provide each other services under the terms of Section 5 of this Agreement.
- 38.8. Any security deposit may be held during the continuance of the service as security for the payment of any and all amounts accruing for the service. No interest will accrue or be paid on deposits. Cash or cash equivalent security deposits will be returned to CLEC when CLEC has made current payments for carrier services to Sprint and all Sprint ILEC affiliates in the State of Tennessee for twelve (12) consecutive months.

### **39. UNBUNDLED NETWORK ELEMENTS**

- 39.1. The charges that CLEC shall pay to Sprint for Unbundled Network Elements are set forth in Table 1 of this Part C.

Table One

Tennessee Price Sheets

**RESALE DISCOUNTS**

Other than Operator / DA	12.70%
Op Assist / DA	12.70%
Temporary Suspension of Service for Resale/UNE-P - <b>Suspend</b>	\$17.50
Temporary Suspension of Service for Resale/UNE-P - <b>Restore</b>	\$0.00
PIC Change Charge	\$5.00

**USAGE/FEE CHARGES**

Message Provisioning, per message	\$0.005
Data Transmission, per message	\$0.002
Tape Charge, per tape	\$50.00

RATE ELEMENT	SOURCE	RECURRING RATE	NBC
<b>SERVICE ORDER/INSTALLATION/REPAIR</b>			
Manual Service Order			\$31.19
Manual Service Order - Listing Only			\$16.44
Manual Service Order - Change Only			\$15.27
Electronic Service Order via IRES			\$4.24
Electronic Service Order - Listing Only			\$0.46
Electronic Service Order - Change Only			\$1.84
Change Telephone Number - Per Change			\$16.27
2-Wire Loop Cooperative Testing			\$46.84
4-Wire Loop Cooperative Testing			\$68.33
Trip Charge			\$18.11
Trouble Isolation and Testing			\$47.06
OSS Service Charge		\$1.77	
Service Conversion of Resale service to or from UNE-P svc			\$22.95
Special Access to UNE Conversions			
DS1 Loop			\$84.86
DS1 Transport			\$64.14
EEL - DS1 Transport and Loop			\$76.17
DS3			ICB
<b>NID</b>	<b>SOURCE</b>	<b>RECURRING RATE</b>	<b>NBC</b>
NID Installation			\$8.15
2-Wire		\$0.98	
4-Wire		\$0.98	
25 Line		\$12.63	ICB
Smartjack		\$9.03	\$54.34



LOOP TAG AND LABEL / RESALE TAG & LABEL	SOURCE	RECURRING RATE	NRC
Tag and Label on a new install loop or resale			\$4.53
Tag and Label on a reinstall loop or an existing loop or resale			\$9.06
Tag and Label on an add'l loop or resale on the same order at the same location			\$3.62
LINE SHARING	SOURCE	RECURRING RATE	NRC
CLEC Provides Splitter In Own Collocation Space			
3-Jumper Configuration			
OSS Cost per Shared Line		\$0.83	
Cross Connects; 100 pr , MDF to Collocation Space (2 required)		\$28.68	
Line Sharing - 2 Jumpers			\$30.81
4-Jumper Configuration			
OSS Cost per Shared Line		\$0.83	
Cross Connects; 100 pr., MDF to Collocation Space (4 required)		\$28.68	
Line Sharing - 3 Jumpers			\$40.29
CLEC Provides Splitter in Common Area of Central Office			
3-Jumper Configuration			
Cost per 96-Line Splitter Shelf		\$18.37	
OSS Cost per Shared Line		\$0.83	
Cross Connects; 100 pr , MDF to Splitter Common Area (2 required)		\$22.16	
Cross Connects; 100 pr , Splitter Common Area to Collocation Space (1 required)		\$17.62	
Line Sharing - 3 Jumpers			\$30.81
4-Jumper Configuration			
Cost per 96-Line Splitter Shelf		\$18.37	
OSS Cost per Shared Line		\$0.83	
Cross Connects, 100 pr , MDF to Collocation Space (1 required)		\$28.68	
Cross Connects, 100 pr , MDF to Splitter Common Area (3 required)		\$22.16	
Line Sharing - 4 Jumpers			\$40.29
CO Interconnection Cost, First Jumper			\$13.43
CO Interconnection Cost, Additional Jumper			\$9.48
CO Interconnection Cost, Remove Jumper			\$7.90
Convert UNE Digital Loop to Line Share-Not Coordinated			\$17.73
Convert UNE Digital Loop to Line-Coordinated during normal hours			\$29.21
Convert UNE Digital Loop to Line Share-Coordinated after normal hrs			\$35.88
PREORDER LOOP QUALIFICATION	SOURCE	RECURRING RATE	NRC
Preorder Loop Qualification			\$40.73

LOOP CONDITIONING PER LINE			
The following charge applies to all Digital UNE, Line Sharing and xDSL capable loops that are less than 18,000 feet in length. Separate Engineering and Travel charges DO NOT apply as these costs reflect 25 pair economies			
All Digital UNE, Line Sharing and/or xDSL-capable loops less than 18,000 feet in length: Load Coil Removal			\$2.00
LINE CONDITIONING PER LOCATION	SOURCE	RECURRING RATE	NRC
The following charge applies to all loops that are 18,000 feet in length or longer that require load coil removal. These charges also apply to loops of any length that require Bridged Tap or Repeater removal. Single charges apply for multiple loops at the same location			
Engineering Charge - one per loop conditioned below			\$45.89
Trip Charge - one per loop conditioned below			\$19.51
<b>Load Coil Removal; Loops Over 18K Feet</b>			
Unload cable pair, UG, loop, per location			\$506.31
Unload add'l cable pair, UG, same time, location & cable, loop			\$1.94
Unload cable pair, AE, loop, per location			\$31.47
Unload add'l cable pair, AE, same time, location & cable, loop			\$1.90
Unload cable pair, BU, loop, per location			\$31.47
Unload add'l cable pair, BU, same time, location & cable, loop			\$1.90
<b>Remove Bridged Tap</b>			
Remove Bridged Tap, UG, per location			\$504.76
Remove one (1) add'l Bndged Tap, UG, same time, location & cable			\$0.40
Remove Bridged Tap, AE, per location			\$29.92
Remove one (1) add'l Bndged Tap, AE, same time, location & cable			\$0.35
Remove Bridged Tap, BU, per location			\$29.92
Remove one (1) add'l Bndged Tap, BU, same time, location & cable			\$0.35
<b>Remove Repeaters</b>			
Remove Repeater, UG, per location			\$504.76
Remove add'l Repeater, UG, same time, location & cable			\$0.40
Remove Repeater, AE, per location			\$29.92
Remove add'l Repeater, AE, same time, location & cable			\$0.35
Remove Repeater, BU, per location			\$29.92
Remove add'l Repeater, BU, same time, location & cable			\$0.35
LOOP	SOURCE	RECURRING RATE	NRC
<b>Analog 2-wire</b>			
Band 1		\$24.96	
Band 2		\$44.61	
Band 3		\$70.36	
<b>Analog 2-Wire NRC</b>			
2-Wire New - First Line			\$113.29

2-Wire New - Addtl Line			\$54.25
2-Wire Re-install (CT, DCOP, Migrate)			\$70.30
2-Wire Analog Disconnect Charge			\$33.96
<b>Analog 4-wire</b>			
Band 1		\$47.71	
Band 2		\$86.58	
Band 3		\$137.68	
<b>Analog 4-Wire NRC</b>			
4-Wire New - First Line			\$147.42
4-Wire New - Addtl Line			\$88.37
4-Wire Re-install (CT, DCOP, Migrate)			\$87.95
4-Wire Analog Disconnect Charge			\$38.48
<b>DS0 2 Wire Digital Data Loop ADSL/ISDN-BRI</b>			
Band 1		\$24.96	
Band 2		\$44.61	
Band 3		\$70.36	
<b>DS0 2 Wire Digital Data Loop ADSL/ISDN-BRI NRC</b>			
2-Wire ISDN, BRI-ISDL Loop First Line (w/o NID)			\$177.94
2-Wire ISDN, BRI-ISDL Loop, Addtl or Second Line			\$115.27
2-Wire Digital ISDN-BRI Disconnect Charge			\$33.96
<b>DS0 4 Wire Digital Data Loop 56 or 64 kbps</b>			
Band 1		\$45.40	
Band 2		\$67.09	
Band 3		\$95.21	
<b>DS0 4 Wire Digital Data Loop 56 or 64 kbps NRC</b>			
4-Wire Digital and DS0 New, First Line (w/o NID)			\$252.24
4-Wire Digital and DS0 New, Addtl or Second Line			\$189.57
4-Wire Digital and DS0 Disconnect Charge			\$38.48
<b>DS1 4 Wire Digital Data DS1/T1/ISDN-PRI</b>			
Band 1		\$170.76	
Band 2		\$194.47	
Band 3		\$272.37	
<b>DS1 4 Wire Digital Data DS1/T1/ISDN-PRI NRC</b>			
DS1 Service New, First Line (w/o NID)			\$334.92
DS1 Service New, Addtl or Second Line			\$188.65
DS1 Disconnect Charge (includes 56,64 kbps and ISDN-PRI service)			\$38.48
DS3		ICB	ICB
<b>Loop Conversion Rates</b>			

DS1 Loop Conversion of Special Access to UNE			\$84.86
Loops - High-Capacity			
Add DS3, OC3, OC12, OC48 to an existing Optic System		ICB	ICB
<b>DARK FIBER</b>	<b>SOURCE</b>	<b>RECURRING RATE</b>	<b>NRC</b>
Interoffice, per foot per fiber		\$0.0040	
Feeder, per fiber		\$252.02	
Distribution Price per Fiber		\$55.78	
Dark Fiber			\$23.70
Fiber Patch Cord Installation, per Fiber			\$7.90
Initial Fiber Patch Cord, Field Location			\$23.70
Additional Patch Cord Installation, Same Time & Same Location			\$185.67
CO Interconnection, 1-4 Patch Cords, per CO			\$55.30
End to End Testing, Initial Strand			\$15.30
End-to-End Testing, Subsequent Strands			\$185.67
Initial Fiber Patch Cord Disconnect, Field Location			\$7.90
Additional Patch Cord Disconnect, Same Time & Same Location			\$267.61
CO Disconnect, 1-4 Patch Cords, per CO			
Misc. Components - Dark Fiber			
Fiber Patch Cord		\$0.74	
Fiber Patch Panel		\$0.72	
<b>SUB LOOPS</b>	<b>SOURCE</b>	<b>RECURRING RATE</b>	<b>NRC</b>
2-Wire Voice Grade Feeder Subloop		ICB	ICB
2-Wire Voice Grade Distribution Subloop		ICB	ICB
4-Wire Voice Grade Feeder Subloop		ICB	ICB
4-Wire Voice Grade Distribution Subloop		ICB	ICB
2-Wire Digital Data Feeder Subloop		ICB	ICB
2-Wire Digital Data Distribution		ICB	ICB
4-Wire Digital Data Feeder Subloop		ICB	ICB
4-Wire Digital Data Distribution		ICB	ICB
Loops - Sub-Loops NRC			
Sub-Loop Interconnection (Stub Cable)			ICB
<b>LOCAL SWITCHING</b>	<b>SOURCE</b>	<b>RECURRING RATE</b>	<b>NRC</b>
Statewide UNE Port Rates			
Residential 1		\$2.48	

Business 1		\$2.48	
Key System		\$2.48	
CENTREX		\$2.48	
Pay Station		\$2.54	
PBX (Analog)		\$6.28	\$171.56
PBX (DS0)		\$6.28	\$276.38
PBX (DS1)		\$150.89	\$359.06
DID		\$150.89	\$359.06
ISDN-BRI		ICB	ICB
ISDN-PRI One Way		\$233.61	\$93.54
ISDN-PRI Two Way		\$507.69	\$93.54
DS3		ICB	ICB
Local Switching Usage, per MOU		\$0.002577	
Convert existing Retail ISDN-PRI Port to UNE ISDN-PRI Port			\$37.64
Customized Routing			
Switch Analysis			\$127.92
Host Switch Translations			\$2,558.35
Remote Switch Translations			\$1,918.76
Host TOPS Translations			\$306.24
Remote TOPS Translations			\$153.12
Operator Services Branding			
0+ Ten Digits			\$3,639.09
411			\$800.00
<b>Unbundled Network Element Platform (UNE-P) LOOP &amp; PORT COMBINATION</b>			
Unbundled Network Element Platform (UNE-P) is a combination of Loop, Port & NID less a line card discount and will be billed in component parts.			
Local Switching Port per MOU applies.			
NRC's are for new service. Transfer of existing service only requires the Service Order NRC.			
Note: If features for UNE-P are desired they are found below at additional rates.			
UNE-P 2-Wire Disconnect Charge			\$5.99
<b>FEATURES</b>			
CCF Package		\$0.37	
CLASS Package		\$6.28	
CENTREX Package		\$10.61	\$34.70
ISDN Package		\$6.71	\$7.04
- 3 Way Conf / Consult / Hold Transfer		\$1.75	\$19.73
- Conf Calling - 6 Way Station Control		\$2.46	\$19.73
- Dial Transfer to Tandem Tie Line		\$0.12	\$107.02

- Direct Connect		\$0.02	\$19.73
- Meet Me Conference		\$16.63	\$30.27
- Multi-Hunt Service		\$0.09	\$19.73
<b>ISDN-PRI FEATURES</b>			
Caller ID Name & Number (per PRI)		\$31.68	\$95.94
Call by Call (per PRI)		\$2.55	\$255.84
Network Ring Again (per PRI)		\$15.25	\$383.75
ISDN-PRI D Channel Backup (add to existing PRI)			\$69.29
ISDN-PRI 2-B Channel Transfer (per PRI)		\$74.37	\$255.84
ISDN-PRI Circular Hunt (per PRI)		\$24.79	\$255.84
ISDN-PRI E911 Call Screening (per PRI)		\$99.16	\$287.81
ISDN-PRI National ISDN-2 Protocol (per PRI)		\$0.00	\$255.84
<b>LNP CONVERSION RATES Effective 9/1/01</b>			
	<b>SOURCE</b>	<b>RECURRING RATE</b>	<b>NRC</b>
Coordinated per order with 1-10 lines			\$51.26
Coordinated per each additional line over 10			\$4.59
LNP Conversion - 10 Digit Trigger			\$0.00
<b>INTERIM NUMBER PORTABILITY</b>			
	<b>SOURCE</b>	<b>RECURRING RATE</b>	<b>NRC</b>
RCF Residential		\$0.32	\$1.32
RCF Business		\$1.04	\$1.32
Call Path Residential		\$0.03	\$0.42
Call Path Business		\$0.15	\$0.42
<b>INP RATES SPECIFIC TO ACCESS SETTLEMENTS</b>			
	<b>SOURCE</b>	<b>RECURRING RATE</b>	<b>NRC</b>
Per Line		\$4.31	
<b>TRANSPORT</b>			
	<b>SOURCE</b>	<b>RECURRING RATE</b>	<b>NRC</b>
Transport - DS0 Dedicated - Install		See Dedicated Transport Worksheet Attached	\$208.36
Transport-DS0 Dedicated - Disconnect			\$29.23
Transport - DS1 Dedicated - Install		See Dedicated Transport Worksheet Attached	\$197.30
Transport-DS1 Dedicated - Disconnect			\$18.17
Transport - DS3 Dedicated - Install		See Dedicated Transport Worksheet Attached	\$208.36
Transport-DS3 Dedicated - Disconnect			\$29.23
<b>Transport Conversation Rates</b>			
DS1 Loop (End to End)			\$84.86
Dedicated Transport (Office to Office)			\$70.58
DS1 to DS1 Cross Connect			\$197.30
DS3 to DS3 Cross Connect			\$208.36

MULTIPEXING			
Multiplexing - D4 Channel Unit		\$4.70	
Multiplexing - DS1-DS0		\$175.85	\$99.21
Multiplexing - DS1-DS0 Disconnect			\$11.56
Multiplexing - DS3-DS1		\$214.41	\$126.36
Multiplexing - DS3-DS1 Disconnect			\$38.71
EEL COMBINATIONS			
SOURCE		RECURRING RATE	NRC
Enhanced Extended Link (EEL) is a combination of Loop, Transport and Multiplexing (when applicable).			
Refer to the specific UNE section (transport, loop, multiplexing) in this document to obtain pricing.			
See the Rate Element/ Service Order/Installation/Repair section of this price sheet for EEL Migration and Center Conversion charges.			
Channel Bank Shelf/Common (Per DS1):		\$175.85	
Channel Bank Card (per DS0)		\$4.70	
EEL NRC's			
EEL 2-Wire Analog Disconnect Charge			\$63.19
EEL 2-Wire DS0 Digital Disconnect Charge			\$63.19
EEL 4-Wire Analog Disconnect Charge			\$67.71
EEL 4-Wire DS0 Digital Disconnect Charge			\$67.71
EEL DS1 Loop Disconnect Charge			\$56.65
RECIPROCAL COMPENSATION			
SOURCE		RECURRING RATE	NRC
End Office		\$0.002721	N/A
Tandem Switching		\$0.003079	N/A
Common		\$0.000648	N/A
INTERCONNECTION			
SOURCE		RECURRING RATE	NRC
These rates apply when collocation is involved For collocation rates, see the appropriate tariff.			
DS0 Elec X-Conn (DS0 UNECC)		\$0.93	N/A
DS1 Elec X-Conn (DS1 UNECC)		\$3.05	N/A
DS3 Elec X-Conn (DS3 UNECC)		\$27.09	N/A

DS1 Facility Cross Connect 1/2 of a DS1 UNECC consisting of one DSX panel and high frequency cable		\$1 53	N/A
Optical - Per 4 fibers			\$35 94
<b>COMMON CHANNEL SIGNALING INTERCONNECTION SERVICES</b>	<b>SOURCE</b>	<b>RECURRING RATE</b>	<b>NRC</b>
STP Port	TELRIC COST STUDY	\$230 29	\$295.19
STP Switching	TELRIC COST STUDY	\$0.84	
56 0 Kbps SS7 Link - Fixed	TELRIC COST STUDY		\$194.68
SS7 - Originating Point Code (OPC) Service			\$31.98
SS7 - Global Title Address Translation (GTT)			\$15.99
<b>LINE INFORMATION DATABASE</b>	<b>SOURCE</b>	<b>RECURRING RATE</b>	<b>NRC</b>
Local Number Portability Service		\$0.00121	N/A
LIDB Database per query		\$0.01251	N/A
Toll Free Code Access Service query		\$0 00082	N/A
Calling Name Database Access Service		\$0 00043	N/A
<b>DIRECTORY ASSISTANCE SERVICES</b>	<b>SOURCE</b>	<b>RECURRING RATE</b>	<b>NRC</b>
DA Database Listing & Update per listing/update	TELRIC COST STUDY	\$0.04	N/A
<b>911 TANDEM PORT</b>	<b>SOURCE</b>	<b>RECURRING RATE</b>	<b>NRC</b>
Per DSO Equivalent Port		\$23 89	\$160.90
<b>STREET INDEX GUIDE</b>	<b>SOURCE</b>	<b>RECURRING RATE</b>	<b>NRC</b>
Monthly Charge		\$41.00	
Tape Charge		\$50.00	
<b>OPERATIONAL SUPPORT SYSTEMS</b>	<b>SOURCE</b>	<b>RECURRING RATE</b>	<b>NRC</b>
OSS Interfaces		ICB	ICB

## STP INTERCONNECTION

STP interconnection (in pairs) can be obtained at any of the following locations. Associated recurring and non-recurring rates are based on the applicable state charges.

State	Exchange	Operating Point Code	CLL Code
Florida	Tallahassee	230-010-000	THLSFLXA21W
	Tallahassee	230-011-000	THLSFLXB21W
	Winter Park	239-111-000	WNPFLXA11W
	Altamonte Springs	239-211-000	ALSPFLXA21W



Tennessee	Bristol	239-004-000	BRSTTNXA21W
	Johnson City	239-002-000	JHCYTNXC21W
Minnesota	Osseo	239-151-000	OSSEMNXO21 W
	Chaska	239-152-000	CHSKMNXC21 W
Missouri	Warrensburg	239-162-000	WRBGMOXA21 W
	Jefferson City	239-161-000	JFCYMOXA21 W
New Jersey	Clinton	239-203-000	CLTNNJXJ77W
	Newton	239-202-000	NWTNNJXU77 W
Nevada	Las Vegas	230-001-000	LSVGNVXB00 W
	Las Vegas	230-002-000	LSVGNVXG00 W
North Carolina	Rocky Mount	239-200-000	RCMTNCXA01 W
	Fayetteville	239-201-000	FYVLNCXA01W
Ohio	Mansfield	239-204-000	MNFDOHXA24 W
	Lima	239-205-000	LIMAOHXA25W
Pennsylvania	Chambersburg	239-207-000	CHBGPAXC77 W
	Carlisle	239-206-000	CRLSPAXC77 W
Texas	Athens	239-141-000	ATHNTXXA21W
	Humble	239-142-000	HMBLTXXA21W

## OPERATOR & DIRECTORY ASSISTANCE

Operator and Directory Assistance can be obtained from any of the four Sprint regional centers.  
The recurring and non-recurring rates are based on the regional centers which are located in:

Las Vegas,  
Nevada  
Mansfield, Ohio  
Rocky Mount, North Carolina  
Winter Park, Florida

## LOOPS

Exchange	CLLI	Band
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Blountville	BUVLTNXAR	BAND 1
Bristol XAH	BRSTTNXAH	BAND 1
Elizabethton	ELTNTNXAH	BAND 1
Johnson City XAH	JHCYTNXAH	BAND 1
Johnson City XCH	JHCYTNXCH	BAND 1
Kingsport XAH	KGPTTNXAH	BAND 1
Kingsport XCR	KGPTTNXCR	BAND 1
Midway	MDWYTNXAR	BAND 1

Baileyton	BLTNTNXAR	BAND 2
Bluff City	BLCYTNXAR	BAND 2
Bristol XBR	BRSTTNXBR	BAND 2
Church Hill	CHHLTNXAR	BAND 2
Erwin	ERWNTNXAR	BAND 2
Greeneville	GRVLTNXAH	BAND 2
Jonesboro	JNBOTNXAR	BAND 2
Stoney Creek	STCKTNXAR	BAND 2
Sullivan Gardens	SLGRTNXAR	BAND 2

Butler	BTLR TNXAR	BAND 3
Fall Branch	FLBRTNXAR	BAND 3
Hampton	HMPNTNXAR	BAND 3
Limestone	LMSTTNXAS	BAND 3
Mosheim	MOSHTNXAR	BAND 3
Mountain City	MTCYTNXAR	BAND 3
Roan Mountain	RNMTTNXAR	BAND 3

## TRANSPORT

### Sprint / United Telephone of the Southeast, Inc. - Tennessee Rate Table Update 2/16/01

Originating	Terminating	Originating	Terminating	Dedicated DS0	Dedicated DS1	Dedicated DS3
BLTNTNXA	GRVLTNXA	Baileyton	Greeneville	\$ 41.38	\$ 292.55	\$ 7,885.71
BLTNTNXA	LMSTTNXA	Baileyton	Limestone	\$ 53.68	\$ 490.36	ICB
BLTNTNXA	MOSHTNXA	Baileyton	Mosheim	\$ 53.46	\$ 486.81	ICB
BUVLTNXA	BLCYTNXA	Blountville	Bluff City	\$ 36.00	\$ 205.97	\$ 3,496.77
BUVLTNXA	BRSTTNXA	Blountville	Bristol, TN and Bristol, VA	\$ 27.18	\$ 64.25	\$ 681.81
BUVLTNXA	CHHLTNXA	Blountville	Church Hill, Mt Carmel	\$ 41.22	\$ 289.87	\$ 4,728.67
BUVLTNXA	FLBRTNXA	Blountville	Fall Branch	\$ 43.30	\$ 323.39	\$ 5,667.71
BUVLTNXA	KGPTTNXA	Blountville	Kingsport	\$ 36.00	\$ 205.97	\$ 3,496.77
BUVLTNXA	MDWYTNXA	Blountville	Midway (Sullivan County)	\$ 36.00	\$ 205.97	\$ 3,496.77
BUVLTNXA	KGPTTNXC	Blountville	Morrison City, VA	\$ 36.00	\$ 205.97	\$ 3,496.77
BUVLTNXA	SLGRTNXA	Blountville	Sullivan Gardens	\$ 43.30	\$ 323.39	\$ 5,667.71
BLCYTNXA	BRSTTNXA	Bluff City-Piney Flats	Bristol, TN and Bristol, VA	\$ 26.44	\$ 141.71	\$ 2,814.96

BLCYTNXA	CHHLTNXA	Bluff City-Piney Flats	Church Hill	\$	30.24	\$	225.62 \$	4,046.86
BLCYTNXA	FLBRTNXA	Bluff City-Piney Flats	Fall Branch	\$	31.76	\$	259.14 \$	4,985.90
BLCYTNXA	KGPTTNXA	Bluff City-Piney Flats	Kingsport	\$	26.44	\$	141.71 \$	2,814.96
BLCYTNXA	MDWYTNXA	Bluff City-Piney Flats	Midway (Sullivan County)	\$	33.17	\$	290.31 \$	5,918.55
BLCYTNXA	SLGRTNXA	Bluff City-Piney Flats	Sullivan Gardens	\$	31.76	\$	259.14 \$	4,985.90
BRSTTNXA	CHHLTNXA	Bristol, TN	Church Hill	\$	30.24	\$	225.62 \$	4,046.86
BRSTTNXA	FLBRTNXA	Bristol, TN	Fall Branch	\$	31.76	\$	259.14 \$	4,985.90
BRSTTNXA	JHCYTNXC	Bristol, TN	Johnson City			\$	86.00	
BRSTTNXA	KGPTTNXA	Bristol, TN	Kingsport	\$	26.44	\$	141.71 \$	2,814.96
BRSTTNXA	MDWYTNXA	Bristol, TN	Midway (Sullivan County)	\$	33.17	\$	290.31 \$	5,918.55
BRSTTNXA	SLGRTNXA	Bristol, TN	Sullivan Gardens	\$	31.76	\$	259.14 \$	4,985.90
BTLRNXXA	ELTNTNXXA	Butler	Elizabethton	\$	28.59	\$	86.85 \$	1,314.29
BTLRNXXA	HMPNTNXXA	Butler	Hampton	\$	28.59	\$	86.85 \$	1,314.29
BTLRNXXA	RNMTTNXXA	Butler	Roan Mountain	\$	48.02	\$	399.21 \$	9,755.13
BTLRNXXA	STCKTNXXA	Butler	Stoney Creek	\$	42.35	\$	308.05 \$	7,202.07
BTLRNXXA	MTCYTNXXA	Butler	Mountain City	\$	43.50	\$	326.61 \$	6,970.49
CHHLTNXA	FLBRTNXA	Church Hill-Mt Carmel	Fall Branch	\$	35.71	\$	201.33 \$	3,402.84
CHHLTNXA	KGPTTNXA	Church Hill-Mt Carmel	Kingsport	\$	28.41	\$	83.90 \$	1,231.90
CHHLTNXA	MDWYTNXA	Church Hill-Mt Carmel	Midway (Sullivan County)	\$	37.65	\$	232.50 \$	4,335.49
CHHLTNXA	KGPTTNXC	Church Hill-Mt Carmel	Morrison City, VA	\$	28.41	\$	83.90 \$	1,231.90
CHHLTNXA	SLGRTNXA	Church Hill-Mt Carmel	Sullivan Gardens	\$	35.71	\$	201.33 \$	3,402.84
ELTNTNXXA	HMPNTNXXA	Elizabethton	Hampton	\$	28.59	\$	86.85 \$	1,314.29
ELTNTNXXA	RNMTTNXXA	Elizabethton	Roan Mountain	\$	48.02	\$	399.21 \$	9,755.13
ELTNTNXXA	STCKTNXXA	Elizabethton	Stoney Creek	\$	36.94	\$	221.20 \$	5,887.78
FLBRTNXXA	KGPTTNXA	Fall Branch	Kingsport	\$	30.49	\$	117.43 \$	2,170.94
FLBRTNXXA	MDWYTNXA	Fall Branch	Midway (Sullivan County)	\$	39.73	\$	266.02 \$	5,274.53
FLBRTNXXA	KGPTTNXC	Fall Branch	Morrison City, VA	\$	30.49	\$	117.43 \$	2,170.94
FLBRTNXXA	SLGRTNXA	Fall Branch	Sullivan Gardens	\$	30.49	\$	117.43 \$	2,170.94
FLBRTNXXA	JHCYTNXC	Fall Branch	Johnson City	\$	39.73	\$	266.02 \$	5,274.53
FLBRTNXXA	JNBOTNXXA	Fall Branch	Jonesborough	\$	46.45	\$	374.07 \$	7,994.58
FLBRTNXXA	LMSTTNXXA	Fall Branch	Limestone	\$	46.45	\$	374.07 \$	7,994.58
FLBRTNXXA	MDWYTNXA	Fall Branch	Midway (Washington County)	\$	39.73	\$	266.02 \$	5,274.53
GRVLTNXXA	BLGPTNMA	Greeneville	Bulls Gap*	\$	54.70	\$	693.19	ICB
GRVLTNXXA	LMSTTNXXA	Greeneville	Limestone	\$	35.49	\$	197.81 \$	5,233.55
GRVLTNXXA	MOSHTNXXA	Greeneville	Mosheim	\$	35.27	\$	194.26 \$	5,133.73
HMPNTNXXA	RNMTTNXXA	Hampton	Roan Mountain	\$	48.02	\$	399.21 \$	9,755.13
HMPNTNXXA	STCKTNXXA	Hampton	Stoney Creek	\$	42.35	\$	308.05 \$	7,202.07
BRSTTNXXA	WYVLVAXA	Bristol, TN	Wytheville, VA				ICB	ICB
BRSTTNXXA	JHCYTNXC	Bristol, TN	Johnson City North				ICB	ICB
BRSTVAXA	JHCYTNXC	Bristol, VA	Johnson City North				ICB	ICB
JHCYTNXXA	JNBOTNXXA	Johnson City Main	Jonesborough-Sulphur Springs	\$	29.91	\$	108.05 \$	2,720.06
JHCYTNXXA	LMSTTNXXA	Johnson City Main	Limestone	\$	29.91	\$	108.05 \$	2,720.06
JHCYTNXXA	JHCYTNXC	Johnson City Main	Johnson City North				\$63.57	\$825.85
JHCYTNXXA	MDWYTNXXA	Johnson City Main	Midway (Washington County)	\$	23.91	\$	85.92 \$	1,252.12
JHCYTNXC	GTCYVAXA	Johnson City North	Gate City VA				\$163.14	\$3,068.40
JHCYTNXC	JNBOTNXXA	Johnson City North	Jonesborough-Sulphur Springs	\$	28.80	\$	193.97 \$	3,972.18
JHCYTNXC	LMSTTNXXA	Johnson City North	Limestone	\$	28.80	\$	193.97 \$	3,972.18

JHCYTNXC	MARNVAXA	Johnson City North	Manon VA			\$	173.00
JHCYTNXC	MDWYTNXA	Johnson City North	Midway (Washington County)	\$	23 91	\$	85.92 \$ 1,252 12
JHCYTNXC	WYVLVAXA	Johnson City North	Wytheville				ICB
JNBOTNXA	LMSTTNXA	Jonesborough-Sulphur Spnngs	Limestone	\$	29 91	\$	108.05 \$ 2,720 06
JNBOTNXA	MDWYTNXA	Jonesborough-Sulphur Spnngs	Midway (Washington County)	\$	35 25	\$	193.97 \$ 3,972.18
KGPTTNXA	GTCYVAXA	Kingsport	Gate City VA				\$67.28 \$1,089.89
KGPTTNXA	MDWYTNXA	Kingsport	Midway (Sullivan County)	\$	26 75	\$	148.59 \$ 3,103 59
KGPTTNXA	SLGRTNXA	Kingsport	Sullivan Gardens	\$	30 49	\$	117.43 \$ 2,170 94
KGPTTNXA	KGPTTNXC	Kingsport	Kingsport				ICB \$76.26 ICB
LMSTTNXA	MDWYTNXA	Limestone	Midway (Washington County)	\$	35 25	\$	193.97 \$ 3,972.18
LMSTTNXA	MOSHTNXA	Limestone	Mosheim	\$	47 57	\$	392.07 ICB
MDWYTNXA	MDWYTNXA	Midway (Sullivan County)	Midway (Washington County)	\$	26.75	\$	148.59 \$ 3,103.59
MDWYTNXA	KGPTTNXC	Midway (Sullivan County)	Morrison City, VA	\$	26.75	\$	148 59 \$ 3,103.59
MDWYTNXA	SLGRTNXA	Midway (Sullivan County)	Sullivan Gardens	\$	32 07	\$	266.02 \$ 5,274.53
MOSHTNXA	BLGPTNMA	Mosheim	Bulls Gap*	\$	54 70	\$	693.19 ICB
MTCYTNXA	SHVYTNXA	Mountain City	Shady Valley*	\$	39 64	\$	654.24 ICB
RNMTTNXA	STCKTNXA	Roan Mountain	Stoney Creek	\$	61.77	\$	620 41 ICB
JHCYTNXC	ELTNTNXA	Johnson City North	Elizabethton				
JHCYTNXC	GRVLTNXA	Johnson City North	Greeneville				
JHCYTNXC	KGPTTNXA	Johnson City North	Kingsport				149 00

## **PART D - LOCAL RESALE**

### **40. TELECOMMUNICATIONS SERVICES PROVIDED FOR RESALE**

- 40.1. At the request of CLEC, and pursuant to the requirements of the Act, and FCC and Commission Rules and Regulations, Sprint shall make available to CLEC for resale Telecommunications Services that Sprint currently provides or may provide hereafter at retail to subscribers who are not telecommunications carriers. Such resale may be as allowed by the FCC and Commission. The Telecommunications Services provided by Sprint to CLEC pursuant to this Part D are collectively referred to as "Local Resale."
- 40.2. To the extent that this Part describes services which Sprint shall make available to CLEC for resale pursuant to this Agreement, this list of services is neither all inclusive nor exclusive.
- 40.3. In the case of resold services, CLEC's customers will continue to received any discontinued service or arrangement for resale to its customers for as long as Sprint continues to provide those same services to its own customers.

### **41. GENERAL TERMS AND CONDITIONS**

- 41.1. Pricing. The prices charged to CLEC for Local Resale are set forth in Part C of this Agreement.

#### **41 1.1. CENTREX Requirements**

- 41.1.1.1. At CLEC's option, CLEC may purchase the entire set of CENTREX features or a subset of any such features.
- 41.1.1.2. All features and functions of CENTREX Service, including CENTREX Management System (CMS), whether offered under tariff or otherwise, shall be available to CLEC for resale.
- 41.1.1.3. Sprint shall make information required for an "as is" transfer of CENTREX subscriber service, features, functionalities and CMS capabilities available to CLEC.
- 41.1.1.4. Consistent with Sprint's tariffs, CLEC, at its expense, may collect all data and aggregate the CENTREX local exchange, and IntraLATA traffic usage of CLEC subscribers to qualify for volume discounts on the basis of such aggregated usage.
- 41.1.1.5. CLEC may request that Sprint suppress the need for CLEC subscribers to dial "9" when placing calls outside the CENTREX System. Should CLEC request this capability for its subscriber, the subscriber will not be able to use 4-digit dialing.
- 41 1.1.6. CLEC may resell call forwarding in conjunction with

CENTREX Service.

- 41.1.1.7. CLEC may purchase any CENTREX Service for resale subject to the requirements of Sprint's tariff.
- 41.1.1.8. Sprint shall make available to CLEC for resale intercom calling within the same CENTREX system. To the extent that Sprint offers its own subscribers intercom calling between different CENTREX systems, Sprint shall make such capability available to CLEC for resale.
- 41.1.1.9. CLEC may resell Automatic Route Selection ("ARS"). CLEC may aggregate multiple CLEC subscribers on dedicated access facilities where such aggregation is allowed by law, rule or regulation.

41.1.2. Voluntary Federal and State Subscriber Financial Assistance Programs

- 41.1.2.1. Subsidized local Telecommunications Services are provided to low-income subscribers pursuant to requirements established by the appropriate state regulatory body, and include programs such as Voluntary Federal Subscriber Financial Assistance Program and Link-Up America. Voluntary Federal and State Subscriber Financial Assistance Programs are Services that are available at wholesale discount, but only to the extent required by the Tennessee Regulatory Authority. However, when a Sprint subscriber who is eligible for such a federal program or other similar state program chooses to obtain Local Resale from CLEC and CLEC serves such subscriber via Local Resale, Sprint shall identify such subscriber's eligibility to participate in such programs to CLEC in accordance with the procedures set forth herein.
- 41.1.3. Grandfathered Services. Sprint will make any service grandfathered to an end user or any Individual Case Basis ("ICB") service available to Carrier for resale to that same end-user at the same locations(s). Should Sprint discontinue any grandfathered or ICB service, Sprint will provide to Carrier any legally required notices as soon as practicable and at least equal in quality and timeliness to that which is provided to Sprint's own customer, prior to the effective date of changes in or discontinuation of any product or service that is available for resale under this section.
- 41.1.4. Contract Service Arrangements, Special Arrangements, and Promotions. Sprint shall offer for resale at the discount specified in Part C all of its Telecommunications Services available at retail to subscribers who are not Telecommunications Carriers, including but not limited to Contract Service Arrangements (or ICB), Special Arrangements (or ICB), and Promotions in excess of ninety (90) days, all in accordance with FCC and Commission Rules and Regulations.

41.1.5. COCOT lines will not be resold at wholesale prices under this Agreement.

41.1.6. Voice Mail Service is not a Telecommunications Service, however, if provided under tariff, the service will be available for resale at Sprint's tariffed rates. However, where available, Sprint shall make available for Local Resale the SMDI-E (Station Message Desk Interface-Enhanced), or SMDI, Station Message Desk Interface where SMDI-E is not available, feature capability allowing for Voice Mail Services. Sprint shall make available the MWI (Message Waiting Indicator) interrupted dial tone and message waiting light feature capabilities where technically available. Sprint shall make available CF-B/DA (Call Forward on Busy/Don't Answer), CF/B (Call Forward on Busy), and CF/DA (Call Forward Don't Answer) feature capabilities allowing for Voice Mail services. Voice Mail/Message Line will be made available at retail (tariffed) rates to the extent required by the Tennessee Regulatory Authority.

41.1.7. Hospitality Service. Sprint shall provide all blocking, screening, and all other applicable functions available for hospitality lines under tariff.

41.1.8. LIDB Administration

41.1.8.1. Sprint shall maintain customer information for CLEC customers who subscribe to resold Sprint local service dial tone lines, in Sprint's LIDB in the same manner that it maintains information in LIDB for its own similarly situated end-user subscribers. Sprint shall update and maintain the CLEC information in LIDB on the same schedule that it uses for its own similarly situated end-user subscribers.

41.1.8.2. Until such time as Sprint's LIDB has the software capability to recognize a resold number as CLEC's, Sprint shall store the resold number in its LIDB at no charge and shall retain revenue for LIDB look-ups to the resold number.

## **PART E - NETWORK ELEMENTS**

### **42. GENERAL**

- 42.1. Pursuant to the following terms, except as specifically provided in this Part E, Sprint will unbundle and separately price and offer Unbundled Network Elements ("UNEs") such that CLEC will be able to subscribe to and interconnect to whichever of these unbundled elements CLEC requires for the purpose of providing local telephone service to its end users. CLEC shall pay Sprint each month for the UNEs provisioned, and shall pay the non-recurring charges listed in Attachment I or agreed to by the Parties. It is CLEC's obligation to combine Sprint-provided UNEs with any facilities and services that CLEC may itself provide. Sprint will continue to offer the UNEs enumerated below subject to further determinations as to which UNEs ILECs are required to offer under the Act, at which time the Parties agree to modify this section pursuant to the obligations set forth in Part B, Paragraph 3.2 of this Agreement.

### **43. UNBUNDLED NETWORK ELEMENTS**

- 43.1. Sprint shall offer UNEs to CLEC for the purpose of offering Telecommunication Services to CLEC subscribers. Sprint shall offer UNEs to CLEC on an unbundled basis on rates, terms and conditions that are just, reasonable, and non-discriminatory in accordance with the terms and conditions of this Agreement. UNEs include:

43.1.1. Network Interface Device ("NID")

43.1.2. Local Loop

43.1.3. Sub Loop

43.1.4. Switching Capability (Except for switching used to serve end users with four or more lines in access density zone 1, in the top 50 Metropolitan Statistical Areas where Sprint provides non-discriminatory access to the enhanced extended link.)

43.1.4.1. Local Switching

43.1.4.2. Tandem Switching

43.1.5. Interoffice Transport Facilities



43.1.5.1. Common

43.1.5.2. Dedicated

43.1.5.3. Dark Fiber

43.1.6. Signaling Networks & Call Related Databases

43.1.7. Operations Support Systems

43.2. CLEC may use one or more UNEs to provide any feature, function, capability, or service option that such UNE(s) is (are) technically capable of providing. Except as provided elsewhere in this Agreement, it is CLEC's obligation to combine Sprint provided UNEs with any and all facilities and services whether provided by Sprint, CLEC, or any other party.

43.3. Each UNE provided by Sprint to CLEC shall be at Parity with the quality of design, performance, features, functions, capabilities and other characteristics, including but not limited to levels and types of redundant equipment and facilities for power, diversity and security, that Sprint provides to itself, Sprint's own subscribers, to a Sprint Affiliate or to any other entity.

43.4. Sprint will provide UNEs to CLEC where facilities and electronics are available. Facilities are available if, in the case of outside network plant, a spare facility exists between the end points of the requested UNE. Facilities are available if, in the case of common network plant, spare capacity exists in the common plant. The fact that a specific spare facility may need to be conditioned in order to provide the requested UNE does not make the facility unavailable, provided that if conditioning is required and charges for such conditioning are expressly permitted elsewhere in this Agreement, Sprint may charge the CLEC for such conditioning. Electronics are available if Sprint has spare electronics at the requested serving area location. For purposes of this section, "spare" means that a facility or electronic component is not dedicated to a particular end user or to Sprint's or another carrier's current use. Notwithstanding the foregoing, facilities and electronics are available if Sprint would provide the service supported by such facilities and electronics to a carrier (e.g. interexchange carrier) at the rate specified in its tariff for the service without imposing additional charges, for example, special construction charges. If in the normal course of business, Sprint has begun construction or ordered additional equipment, spare facilities and electronics shall be considered available, provided that standard due dates may be adjusted to account for the scheduled completion date.

43.5. Sprint will work in an expeditious manner to provision high-capacity UNE loops for CLEC requiring the addition of repeaters and doublers. When Sprint identifies that a UNE loop order from CLEC requires provisioning of a repeater, Sprint will request that CLEC submit a BFR. Upon receiving the BFR from CLEC, Sprint will provide a response to CLEC indicating Sprint's intentions to provision the repeaters or doublers at its own costs or the applicable price estimate to be charged to CLEC upon CLEC's acceptance. Sprint will provide this information

on the same basis as Sprint provides the same information to its special access customers through Sprint's Individual-Case-Basis (ICB) process. Sprint requires that CLEC send a BFR to Sprint for the addition of repeaters or doublers until Sprint has modified its internal processes to accept such special construction requests through its ICB process. An approximate timeframe for Sprint to convert CLEC's special construction requests to Sprint's ICB process, eliminating the need for CLEC to submit a BFR for a normal order, is May 1, 2002.

- 43.6. Under reasonable circumstances, and in parity with Sprint's special construction policy for special access, Sprint will add repeaters or doublers and perform the required installation work at its own costs to provision high-capacity UNE loops for CLEC. However, if Sprint identifies that special or extraordinary costs are required to provision repeaters or doublers within CLEC's UNE loop order, Sprint will require CLEC to pay for the additional charges. Potential examples of these extraordinary conditions are when a significant amount of repeaters are required to provision the high-capacity loop, excessive labor costs are needed for engineering and splicing labor, or if unreasonable amounts of installation work are required.
- 43.7. Conditioning charges associated with loop provisioning are normal charges and will be continued to be assessed to CLEC pursuant to the Agreement.

#### **44. BONA FIDE REQUEST PROCESS FOR FURTHER UNBUNDLING**

- 44.1. Sprint shall promptly consider and analyze access to categories of UNEs not covered in this Agreement, and requests where facilities and necessary equipment are not available with the submission of a Network Element Bona Fide Request hereunder. However, if CLEC requests a UNE or category of UNEs not covered by this Agreement, but that Sprint has provided to another entity, Sprint shall make available the same unbundled network element to CLEC on terms and conditions no less favorable to CLEC than those provided to any other entity, subject to Section 26.1.
- 44.2. A UNE Bona Fide Request ("BFR") shall be submitted in writing on the Sprint Standard BFR Form and shall include a clear technical description of each requested UNE.
- 44.3. CLEC may cancel a UNE Bona Fide Request at any time, but shall pay Sprint's reasonable and demonstrable costs of processing and/or implementing the UNE Bona Fide Request up to the date of cancellation.
- 44.4. Within five (5) business days of its receipt, Sprint shall acknowledge receipt of the UNE Bona Fide Request.
- 44.5. Except under extraordinary circumstances, within thirty (30) calendar days of its receipt of a UNE Bona Fide Request, Sprint shall provide to CLEC a written preliminary analysis of such UNE Bona Fide Request. The preliminary analysis shall confirm whether Sprint will offer access to the UNE, including whether it is

technically or operationally feasible. If Sprint will not offer access to the requested UNE, Sprint will provide CLEC in writing a detailed explanation for its denial.

- 44.6. Upon receipt of the preliminary analysis, CLEC shall, within thirty (30) calendar days, notify Sprint, in writing, of its intent to proceed or not to proceed.
- 44.7. Except under extraordinary circumstances, upon receipt of written authorization from CLEC, Sprint shall, within 30 calendar days develop the applicable prices. The prices quoted shall comply with Section 252(d) and applicable FCC and Commission pricing regulations.
- 44.8. Within thirty (30) calendar days of receipt of the price quote, CLEC shall, if it wishes to proceed, notify Sprint in writing of its acceptance of the price quote and authorization to proceed.
- 44.9. As soon as feasible, but not more than sixty (60) calendar days after receipt of the acceptance of the price quote and written authorization to proceed with developing and provisioning the service(s) in the UNE Bona Fide Request, Sprint shall provide to CLEC the date by which the service(s) can be provided by Sprint.
- 44.10. Within thirty (30) calendar days of its receipt of the date by which the UNE service(s) can be provisioned, CLEC must either confirm, in writing, its order for the UNE service(s), or if a disagreement arises, seek resolution of the dispute under the Dispute Resolution procedures in Section 23 of this Agreement.
- 44.11. If a Party to a UNE Bona Fide Request believes that the other Party is not requesting, negotiating or processing the UNE Bona Fide Request in good faith, or disputes a determination, or price or cost quote, such Party may seek resolution of the dispute pursuant to the Dispute Resolution provisions in Section 23 of this Agreement.

#### **45. NETWORK INTERFACE DEVICE**

- 45.1. Sprint will offer unbundled access to the network interface device element (NID). The NID is defined as any means of interconnection of end-user customer premises wiring to an incumbent LEC's distribution plant, such as a cross connect device used for that purpose. This includes all features, functions, and capabilities of the facilities used to connect the loop to end-user customer premises wiring, regardless of the specific mechanical design.
- 45.2. The function of the NID is to establish the network demarcation point between a carrier (ILEC/CLEC) and its subscriber. The NID provides a protective ground connection, protection against lightning and other high voltage surges and is capable of terminating cables such as twisted pair cable.
- 45.3. CLEC may connect its NID to Sprint's NID; may connect an unbundled loop to its NID; or may connect its own Loop to Sprint's NID. Sprint will provide one NID

termination for each loop. If additional NID terminations are required, CLEC may request them pursuant to process detailed in Section 43 herein.

- 45.4. Sprint will provide CLEC with information that will enable their technician to locate end user inside wiring at NIDs terminating multiple subscribers. Sprint will dispatch a technician and tag the wiring at the CLEC's request. In such cases the charges specified in Attachment I will apply.
- 45.5. Sprint will not provide specialized (Sprint non-standard) NIDS.
- 45.6. The Sprint NID shall provide a clean, accessible point of connection for the inside wiring and for the Distribution Media and/or cross connect to CLEC's NID and shall maintain a connection to ground that meets applicable industry standards. Each Party shall ground its NID independently of the other Party's NID.

#### **46. LOOP**

- 46.1. The definition of the loop network element includes all features, functions, and capabilities of the transmission facilities, including dark fiber and electronics (except those used for the provision of advanced services, such as DSLAMS) owned by Sprint, between a Sprint central office and the loop demarcation point at the customer premises. Terms and conditions for the provision of dark fiber are set forth in Section 52 of this Agreement. The demarcation point is that point on the loop where the telephone company's control of the facility ceases, and the End User Customer's control of the facility begins. This includes, but is not limited to, two-wire and four-wire copper analog voice-grade loops and two-wire and four-wire conditioned loops.
- 46.2. Conditioned Loops. Sprint will condition loops at CLEC's request. Conditioned loops are copper loops from which excessive bridge taps, load coils, low-pass filters, range extenders, and similar devices have been removed to enable the delivery of high-speed wireline telecommunications capability, including DSL. Sprint will assess charges for loop conditioning, irrespective of the length loop, in accordance with the prices listed in Attachment I.
- 46.3. At CLEC's request, and if technically feasible, Sprint will test and report trouble on conditioned loops for all of the line's features, functions, and capabilities, and will not restrict its testing to voice-transmission only. Testing shall include Basic Testing and Cooperative Testing. Basic Testing shall include simple metallic measurements only, performed by accessing the loop through the voice switch.
  - 46.3.1. Basic Testing does not include cooperative efforts that require Sprint's technician to work jointly with CLEC's staff ("Cooperative Testing").
  - 46.3.2. Cooperative testing will be provided by Sprint at CLEC's expense. Sprint technicians will try to contact CLEC's representative at the conclusion of installation. If the CLEC does not respond within 5 minutes, Sprint may, in its sole discretion, abandon the test and CLEC will be charged for the

test.

46.3.3. Sprint will charge CLEC at the rates set out on Table One, when the location of the trouble on a CLEC-reported ticket is determined to be in CLEC's network.

#### 46.4. Voice Grade Loop Capabilities

46.4.1. Voice grade loops are analog loops that facilitate the transmission of analog voice grade signals in the 300-3000 Hz range and terminate in a 2-wire or 4-wire electrical interface at the CLEC's customer's premises. CLEC shall not install equipment on analog loops that exceeds the specified bandwidth.

46.4.2. If Sprint uses Digital Loop Carrier or other similar remote concentration devices, and if facilities are available, Sprint will make alternative arrangements at CLEC's request and option, to provide an unbundled voice grade loop. Alternative arrangement may include copper facilities, dedicated transmission equipment or the deployment of newer devices providing for multiple hosting.

46.4.3. Where facilities and necessary equipment are not available, CLEC requests will be processed through the BFR process. CLEC agrees to reimburse Sprint for the actual cost of the modifications necessary to make the alternative arrangements available.

#### 46.5. Non-Voice Grade Loops

46.5.1. Sprint will provide non-voice grade loops on the basis of the service that will be provisioned over the loop. Sprint requires CLEC to provide in writing (via the service order) the spectrum management class (SMC), as defined in the T1E1.4/2000-002R2 Draft and subsequent updates, of the desired loop, so that the loop and/or binder group may be engineered to meet the appropriate spectrum compatibility requirements. CLEC must disclose to Sprint every SMC that the CLEC has implemented on Sprint's facilities to permit effective Spectrum Management. If CLEC requires a change in the SMC of a particular loop, CLEC shall notify Sprint in writing of the requested change in SMC (via a service order). On non-voice grade loops, both standard and non-standard, Sprint will only provide electrical continuity and line balance.

46.5.2. Sprint shall employ industry accepted standards and practices to maximize binder group efficiency through analyzing the interference potential of each loop in a binder group, assigning an aggregate interference limit to the binder group, and then adding loops to the binder group until that limit is met. Disputes regarding the standards and practices employed in this regard shall be resolved through the Dispute Resolution Process set forth in Section 23 of this Agreement.

- 46.5.3. If Sprint uses Digital Loop Carrier or other similar remote concentration devices, and if facilities and necessary equipment are available, Sprint will make alternative arrangements available to CLEC at CLEC's request, to provide an unbundled voice grade loop. Alternative arrangements may include existing copper facilities, dedicated transmission equipment or the deployment of newer devices providing for multiple hosting.
- 46.5.4. Where facilities and necessary equipment are not available, CLEC requests will be processed through the BFR process. CLEC agrees to reimburse Sprint for the actual cost of the modifications necessary to make the alternative arrangements available.
- 46.5.5. CLEC will submit a BFR for non-voice grade loops that are not currently listed in Table One.
- 46.5.6. Reverse ADSL Loops. If a CLEC's ADSL Transmission Unit (including those integrated into DSLAMs) is attached to Sprint's Network and if an ADSL copper loop should start at an outside location, and is looped through a host or remote, and then to the subscriber, the copper plant from the outside location to the Sprint host or remote central office must be a facility dedicated to ADSL transmission only and not part of Sprint's regular feeder or distribution plant.
- 46.5.7. CLEC shall meet the power spectral density requirement given in the respective technical references listed below:
- 46.5.7.1. For Basic Rate ISDN: Telcordia TR-NWT-000393 Generic Requirements for ISDN Basic Access Digital Subscriber Lines.
- 46.5.7.2. For HDSL installations: Telcordia TA-NWT-001210 Generic Requirements for High-Bit-Rate Digital Subscriber Lines. Some fractional T1 derived products operating at 768 kbps may use the same standard.
- 46.5.7.3. For ADSL: ANSI T1.413-1998 (Issue 2 and subsequent revisions) Asymmetrical Digital Subscriber Line (ADSL) Metallic Interface.
- 46.5.7.4. As an alternative to 45.7.1 CLEC may meet the requirements given in ANSI document T1E1.4/2000-002R2 dated May 1, 2000. "Working Draft of Spectrum Management Standard", and subsequent revisions of this document.
- 46.6. Non-Standard Non-Voice Grade Loops
- 46.6.1. If CLEC requests a xDSL loop, for which the effective loop length exceeds the xDSL standard of 18 kft (subject to gauge design used in an area), Sprint will only provide a Non-Standard Non-Voice Grade Loop. Additional non-recurring charges for conditioning will apply. Non-

Standard Non-Voice Grade Loops will not be subject to performance measurements or technical specifications, however, all of the SMC requirements set forth in Section 45.5 are applicable.

46.7. Adherence to National Industry Standards

46.7.1. In providing advanced service loop technology, Sprint shall allow CLEC to deploy underlying technology that does not significantly interfere with other advanced services and analog circuit-switched voice band transmissions.

46.7.2. Until long term industry standards and practices can be established, a particular technology shall be presumed acceptable for deployment under certain circumstances. Deployment that is consistent with at least one of the following circumstances presumes that such loop technology will not significantly degrade the performance of other advanced services or impair traditional analog circuit-switched voice band services:

46.7.2.1. Complies with existing industry standards, including an industry-standard PSD mask, as well as modulation schemes and electrical characteristics;

46.7.2.2. Is approved by an industry standards body, the FCC, or any state commission or;

46.7.2.3. Has been successfully deployed by any carrier without significantly degrading the performance of other services; provided however, where CLEC seeks to establish that deployment of a technology falls within the presumption of acceptability under this paragraph 45.7.2.3, the burden is on CLEC to demonstrate to the state commission that its proposed deployment meets the threshold for a presumption of acceptability and will not, in fact, significantly degrade the performance of other advanced services or traditional voice band services. However, once a state commission determines that the CLEC has met the threshold, and will not, in fact significantly degrade the performance of other advanced service or traditional voice band services, the technology is presumed acceptable in states other than the one in which the technology was initially approved.

46.7.3. If a deployed technology significantly degrades other advanced services, the affected Party will notify the interfering Party and give them a reasonable opportunity to correct the problem. The interfering Party will immediately stop any new deployment until the problem is resolved to mitigate disruption of other carrier services. If the affected parties are unable to resolve the problem, they will present factual evidence to the State Commission for review and determination. If the Commission determines that the deployed technology is the cause of the interference,

the deploying Party will remedy the problem by reducing the number of existing customers utilizing the technology or by migrating them to another technology that does not disturb.

46.7.4. When the only degraded service itself is a known disturber and the newly deployed technology is presumed acceptable pursuant to 45.7.2, the degraded service shall not prevail against the newly deployed technology.

46.7.5. If Sprint denies a request by CLEC to deploy a technology, it will provide detailed, specific information providing the reasons for the rejection.

46.7.6. Parties agree to abide by national standards as developed by ANSI, i.e., Committee T1E1.4 group defining standards for loop technology. At the time the deployed technology is standardized by ANSI or the recognized standards body, the CLEC will upgrade its equipment to the adopted standard within 60 days of the standard being adopted.

46.8. Information to be Provided for Deployment of Advanced Services.

46.8.1. In connection with the provision of advanced services, Sprint shall provide to CLEC:

46.8.1.1. information with respect to the spectrum management procedures and policies that Sprint uses in determining which services can be deployed;

46.8.1.2. information with respect to the rejection of CLEC's provision of advanced services, together with the specific reason for the rejection; and

46.8.1.3. information with respect to the number of loops using advanced services technology within the binder and type of technology deployed on those loops.

46.8.2. In connection with the provision of advanced services, CLEC shall provide to Sprint the following information on the type of technology that CLEC seeks to deploy where CLEC asserts that the technology it seeks to deploy fits within a generic Power Spectral Density (PSD) mask:

46.8.2.1 information in writing (via the service order) regarding the Spectrum Management Class (SMC), as defined in the T1E1.4/2000-002R2 Draft, of the desired loop so that the loop and/or binder group may be engineered to meet the appropriate spectrum compatibility requirements;

46.8.2.2 the SMC (i.e. PSD mask) of the service it seeks to deploy, at the time of ordering and if CLEC requires a change in the SMC of a particular loop, CLEC shall notify Sprint in writing of the requested change in SMC (via a service order);



- 46.8.2.3. to the extent not previously provided CLEC must disclose by written notice to Sprint every SMC that the CLEC has implemented on Sprint's facilities to permit effective Spectrum Management.
- 46.8.3. In connection with the provision of HFS UNE, if CLEC relies on a calculation-based approach to support deployment of a particular technology, it must provide Sprint with information on the speed and power at which the signal will be transmitted.
- 46.9. At CLEC's request, Sprint will tag and label unbundled loops at the Network Interface Device (NID). Tag and label may be ordered simultaneously with the ordering of the loop or as a separate service subsequent to the ordering of the loop.
  - 46.9.1. Sprint will include the following information on the label: order number, due date, CLEC name, and the circuit number.
  - 46.9.2. Tag and Label is available on the following types of loops: 2- and 4- wire analog loops, 2- and 4-wire xDSL capable loops, DSO 2- and 4-wire loops, and DS1 4-wire loops.
  - 46.9.3. CLEC must specify on the order form whether each loop should be tagged and labeled.
- 46.10. The rates for loop tag and label and related services are set forth on Attachment A, which is incorporated into and made a part of this agreement. Tagging and labeling of DS3 and OC3 loops will be priced on an ICB basis.

#### **47. SUBLOOPS**

- 47.1. Sprint will offer unbundled access to subloops, or portions of the loop, at any accessible terminal in Sprint's outside loop plant. Such locations include, for example, a pole or pedestal, the network interface device, the minimum point of entry to the customer premises, and the feeder distribution interface located in, for example, a utility room, a remote terminal, or a controlled environment vault or at the MDF.
- 47.2. An accessible terminal is any point on the loop where technicians can access the wire or fiber within the cable (e.g., via screw posts, terminals, patch panels) without removing a splice case to reach the wire or fiber within.
- 47.3. Initially Sprint will consider all requests for access to subloops on an individual case basis due to the wide variety of interconnections available and the lack of standards. A written response will be provided to CLEC covering the interconnection time intervals, prices and other information based on the BFR process as set forth in Section 43 of this Agreement. Typical arrangements and corresponding prices will be developed and, upon request, included in this

Agreement via amendment after a substantial number have been provided and a pattern exists.

- 47.4. Reverse ADSL Loops. If a CLEC's ADSL Transmission Unit (including those integrated into DSLAMs) is attached to Sprint's Network and if an ADSL copper loop should start at an outside location, and is looped through a host or remote, and then to the subscriber, the copper plant from the outside location to the Sprint host or remote central office must be a facility dedicated to ADSL transmission only and not part of Sprint's regular feeder or distribution plant.
- 47.5. To the extent Sprint owns inside wire and related maintenance for itself and its customers, Sprint will provide CLEC existing inside wire, including intrabuilding and interbuilding cable, at any accessible point, where technically feasible. Where available, inside wire is offered separate from the UNE loop, and the rates for inside wire are distinct from the loop rates.
  - 47.5.1. Inside wire is the wire, owned by Sprint, and located on the customer's side of the network interface (NI), as defined in §51.319(a)(2)(i). Inside wire also includes interbuilding and intrabuilding cable. Interbuilding cable means the cable between buildings in a campus setting (i.e., between multiple buildings at a customer location).
    - 47.5.1.1. Intrabuilding cable means the cable running vertically and horizontally within a building.
    - 47.5.1.2. Intrabuilding cable includes riser cable and plenum cable.
  - 47.5.2. Sprint will not provide or maintain inside wire in situations where it reasonably determines there are health or safety concerns in doing so, provided such determination is at Parity with the standards Sprint applies to its own end users.
- 47.6. Requests for inside wire, including ordering and provisioning, will be handled on an Individual Case Basis (ICB) due to the uniqueness of each instance where Sprint may own inside wire. The application of prices for inside wire will be matched to the specific facilities located at the site where it is being sold. The prices for inside wire are reflected in the standardized price list for the components for inside wire, including interbuilding cable, intrabuilding cable, SAI, riser cable and plenum cable. Non-recurring interconnection costs and charges will be determined on a site-specific basis and are dependent upon the facilities present at the location. The purchase of inside wire may necessitate the purchase of other facilities, including but not limited to, loop, network interface devices (NIDs), building terminals, and/or serving area interfaces (SAIs).

#### 48. LOCAL SWITCHING

- 48.1. Local Switching is the Network Element that provides the functionality required to connect the appropriate lines or trunks wired to the Main Distributing Frame

(MDF) or Digital Cross Connect (DSX) panel to a desired line or trunk. Requests for local switching functions that Sprint does not provide but is capable of providing will be handled as BFR. Such functionality shall include all of the features, functions, and capabilities that the underlying Sprint switch providing such Local Switching function provides for Sprint's own services. Functionality may include, but is not limited to: line signaling and signaling software, digit reception, dialed number translations, call screening, routing, recording, call supervision, dial tone, switching, telephone number provisioning, announcements, calling features and capabilities (including call processing), Centrex, or Centrex like services, Automatic Call Distributor (ACD), CLEC presubscription (e.g., long distance Carrier, intraLATA toll), Carrier Identification Code (CIC) portability capabilities, testing and other operational features inherent to the switch and switch software. Since Sprint offers EELs under this Agreement, Sprint is not required to provide local switching under this Section 45 for switching used to serve end users with four or more lines in access density zone 1, in the top 50 Metropolitan Statistical Areas.

48.2. Sprint will provide customized routing at CLEC's request where technically feasible. Customized routing enables the CLEC to route their customer's traffic differently than normally provided by Sprint. For example, customized routing will allow the CLEC to route their customer's operator handled traffic to a different provider. CLEC requests will be processed through the BFR process. Pricing will be on a time and materials basis.

48.3. Technical Requirements

48.3.1. Sprint shall provide its standard recorded announcements (as designated by CLEC) and call progress tones to alert callers of call progress and disposition. CLEC will use the BFR process for unique announcements.

48.3.2. Sprint shall change a subscriber from Sprint's Telecommunications Services to CLEC's Telecommunications Services without loss of feature functionality unless expressly agreed otherwise by CLEC.

48.3.3. Sprint shall control congestion points such as mass calling events, and network routing abnormalities, using capabilities such as Automatic Call Gapping, Automatic Congestion Control, and Network Routing Overflow. Application of such control shall be competitively neutral and not favor any user of unbundled switching or Sprint.

48.3.4. Sprint shall offer all Local Switching features that are technically feasible and provide feature offerings at Parity with those provided by Sprint to itself or any other party.

48.4 Interface Requirements. Sprint shall provide the following interfaces.

48.4.1. Standard Tip/Ring interface including loopstart or groundstart, on-hook signaling (e.g., for calling number, calling name and message waiting

lamp);

48.4.2. Coin phone signaling;

48.4.3. Basic and Primary Rate Interface ISDN adhering to ANSI standards Q.931, Q.932 and appropriate Telcordia Technical Requirements;

48.4.4. Two-wire analog interface to PBX to include reverse battery, E&M, wink start and DID;

48.4.5. Four-wire analog interface to PBX to include reverse battery, E&M, wink start and DID; and

48.4.6. Four-wire DS1 interface to PBX or subscriber provided equipment (e.g., computers and voice response systems).

48.5. Sprint shall provide access to interfaces, including but not limited to:

48.5.1. SS7 Signaling Network, Dial Pulse or Multi-Frequency trunking if requested by CLEC;

48.5.2. Interface to CLEC operator services systems or Operator Services through appropriate trunk interconnections for the system; and

48.5.3. Interface to CLEC directory assistance services through the CLEC switched network or to Directory Services through the appropriate trunk interconnections for the system; and 950 access or other CLEC required access to interexchange carriers as requested through appropriate trunk interfaces.

## 49. TANDEM SWITCHING

49.1. Tandem Switching is the function that establishes a communications path between two switching offices (connecting trunks to trunks) through a third switching office (the tandem switch) including but not limited to CLEC, Sprint, independent telephone companies, IXC's and wireless Carriers. A host/remote end office configuration is not a Tandem Switching arrangement.

49.2. Technical Requirements

49.2.1. The requirement for Tandem Switching include, but are not limited to, the following:

49.2.1.1. Interconnection to Sprint tandem(s) will provide CLEC local interconnection for local service purposes to the Sprint end offices and NXXs which subtend that tandem(s), where local trunking is provided, and access to the toll network.

- 49.2.1.2. Interconnection to a Sprint tandem for transit purposes will provide access to telecommunications carriers which are connected to that tandem.
- 49.2.1.3. Where a Sprint Tandem Switch also provides End-Office Switch functions, interconnection to a Sprint tandem serving that exchange will also provide CLEC access to Sprint's end offices.
- 49.2.2. Tandem Switching shall preserve CLASS/LASS features and Caller ID as traffic is processed.
- 49.2.3. To the extent technically feasible, Tandem Switching shall record billable events for distribution to the billing center designated by CLEC.
- 49.2.4. Tandem Switching shall control congestion using capabilities such as Automatic Congestion Control and Network Routing Overflow. Congestion control provided or imposed on CLEC traffic shall be at Parity with controls being provided or imposed on Sprint traffic (e.g., Sprint shall not block CLEC traffic and leave its traffic unaffected or less affected).
- 49.2.5. The Local Switching and Tandem Switching functions may be combined in an office. If this is done, both Local Switching and Tandem Switching shall provide all of the functionality required of each of those Network Elements in this Agreement.
- 49.2.6. Tandem Switching shall provide interconnection to the E911 PSAP where the underlying Tandem is acting as the E911 Tandem.
- 49.3. Interface Requirements
  - 49.3.1. Direct trunks will be utilized for interconnection to one or more Sprint Tandems, excluding transit traffic via common trunks as may be required under the Act.
  - 49.3.2. Sprint shall provide all signaling necessary to provide Tandem Switching with no loss of feature functionality.

## 50. PACKET SWITCHING

- 50.1. Sprint will provide CLEC unbundled packet switching if all of the following conditions are met:
  - 50.1.1. Sprint has deployed digital loop carrier systems, including but not limited to, integrated digital loop carrier or universal digital loop carrier systems, or has deployed any other system in which fiber optic facilities replace copper facilities in the distribution section (e.g., end office to remote terminal, pedestal or environmentally controlled vault);
  - 50.1.2. There are no spare copper loops cable of supporting the xDSL services the requesting carrier seeks to offer;

50.1.3. Sprint has not permitted the requesting carrier to deploy a Digital Subscriber Line Access Multiplexer (DSLAM) at the remote terminal, pedestal or environmentally controlled vault or other interconnection point, nor has the requesting carrier obtained a virtual collocation arrangement at these sub-loop interconnection points as defined by 47 C.F.R. §51.319(b); and

50.1.4. Sprint has deployed packet switching capability for its own use.

## **51. TRANSPORT**

51.1. Shared Transport. Sprint will offer unbundled access to shared transport where unbundled local circuit switching is provided. Shared Transport is shared between multiple carriers and must be switched at a tandem. Shared transport is defined as transmission facilities shared by more than one carrier, including Sprint, between end office switches, between end office switches and tandem switches, and between tandem switches in the Sprint network.

51.1.1. Sprint may provide Shared Transport at DS-0, DS-1, DS-3, STS-1 or higher transmission bit rate circuits.

51.1.2. Sprint shall be responsible for the engineering, provisioning, and maintenance of the underlying Sprint equipment and facilities that are used to provide Shared Transport.

51.2. Dedicated Transport. Sprint will offer unbundled access to dedicated interoffice transmission facilities, or transport, including dark fiber. Terms and conditions for providing dark fiber are set forth in Section 54. Dedicated transport is limited to the use of a single carrier and does not require switching at a tandem. Dedicated interoffice transmission facilities are defined as Sprint transmission facilities dedicated to a particular customer or carrier that provide Telecommunications Services between wire centers owned by Sprint or requesting telecommunications carriers, or between switches owned by Sprint or requesting telecommunications carriers.

### **51.2.1. Technical Requirements**

51.2.1.1. Where technologically feasible and available, Sprint shall offer Dedicated Transport consistent with the underlying technology as follows:

51.2.1.1.1. When Sprint provides Dedicated Transport, the entire designated transmission circuit (e.g., DS-1, DS-3, STS-1) shall be dedicated to CLEC designated traffic.

51.2.1.1.2. Where Sprint has technology available, Sprint shall offer Dedicated Transport using currently available technologies including, but not limited to, DS1 and

DS3, and OCn transport systems, SONET (or SDS) Bi-directional Line Switched Rings, SONET (or SDH) Unidirectional Path Switched Rings, and SONET (or SDS) point-to-point transport systems (including linear add-drop systems), at all available transmission bit rates.

## **52. SIGNALING SYSTEMS AND DATABASES**

- 52.1. Sprint will offer unbundled access to signaling links and signaling transfer points (STPs) in conjunction with unbundled switching, and on a stand-alone basis. The signaling network element includes, but is not limited to, signaling links and STPs. Sprint will offer unbundled access to call-related databases, including, but not limited to, the Line Information database (LIDB), Toll Free Calling database, Number Portability database, Calling Name (CNAM) database, Advanced Intelligent Network (AIN) databases, and the AIN platform and architecture. Sprint reserves the right to decline to offer unbundled access to certain AIN software that qualifies for proprietary treatment. The access to the above call related databases are not required based on this contract. If through interconnections CLEC has access to Sprint's SS7 Network, they therefore have the ability to perform database queries. If the event arises and CLEC accesses these databases, Sprint has the right to bill for such services.

## 52.2. Signaling Systems

### 52.2.1. Signaling Link Transport

52.2.1.1. Signaling Link Transport is a set of two or four dedicated 56 Kbps transmission paths between CLEC-designated Signaling Points of Interconnection (SPOI) that provides appropriate physical diversity and a cross connect at a Sprint STP site.

52.2.1.2. Technical Requirements. Signaling Link transport shall consist of full duplex mode 56 Kbps transmission paths.

### 52.2.2. Signaling Transfer Points (STPs)

52.2.2.1. Signaling Transfer Points (STPs) provide functionality that enable the exchange of SS7 messages among and between switching elements, database elements and signaling transfer points.

52.2.3. Technical Requirements. STPs shall provide access to and fully support the functions of all other Network Elements connected to the Sprint SS7 network. These include:

52.2.3.1. Sprint Local Switching or Tandem Switching;

52.2.3.2. Sprint Service Control Points/Databases;

52.2.3.3. Third-party local or Tandem Switching systems; and

52.2.3.4. Third party provides STPs.

52.2.4. Interface Requirements. Sprint shall provide the following STP options to connect CLEC or CLEC-designated local switching systems or STPs to the Sprint SS7 network:

52.2.4.1. An A-link interface from CLEC local switching systems; and

52.2.4.2. B- or D-link interface from CLEC STPs.

52.2.4.3. Each type of interface shall be provided by one or more sets (layers) of signaling links, as follows:

52.2.4.3.1. An A-link layer shall consist of two links,

52.2.4.3.2. A B- or D-link layer shall consist of four links,

52.2.4.3.3. Signaling Point of Interconnection (SPOI) for each link shall be located at a cross-connect element, such as a DSX-1, in the Central Office (CO) where the Sprint STPs is located. Interface to Sprint's STP shall be the



56kb rate. The 56kb rate can be part of a larger facility, and CLEC shall pay multiplexing/demultiplexing and channel termination, plus mileage of any leased facility.

### 52.3. Line Information Database (LIDB)

52.3.1. The LIDB is a transaction-oriented database accessible CCS network. It contains records associated with subscribers' Line Numbers and Special Billing Numbers. LIDB accepts queries from other Network Elements, or CLEC's network, and provides appropriate responses. The query originator need not be the owner of LIDB data. LIDB queries include functions such as screening billed numbers that provides the ability to accept Collect or Third Number Billing calls and validation of Telephone Line Number based non-proprietary calling cards. The interface for the LIDB functionality is the interface between the Sprint CCS network and other CCS networks. LIDB also interfaces to administrative systems. The administrative system interface provides Work Centers with an interface to LIDB for functions such as provisioning, auditing of data, access to LIDB measurements and reports.

#### 52.3.2. Technical Requirements

52.3.2.1. Prior to the availability of Local Number Portability, Sprint shall enable CLEC to store in Sprint's LIDB any subscriber Line Number of Special Billing Number record, whether ported or not, for which the NPA-NXX or NXX-01-XX Group is supported by that LIDB, and NPA-NXX and NXX-0/1XX Group Records, belonging to a NPA-NXX or NXX-0/1XX owned by CLEC.

52.3.2.2. Subsequent to the availability of a long-term solution for Number Portability, Sprint, under the terms of a separate agreement with CLEC, shall enable CLEC to store in Sprint's LIDB any subscriber Line Number or Special Billing Number record, whether ported or not, regardless of the number's NPA-NXX or NXX-0/1XX.

52.3.2.3. Sprint shall perform the following LIDB functions for CLEC's subscriber records in LIDB: Billed Number Screening (provides information such as whether the Billed Number may accept Collect or Third Number Billing calls); and Calling Card Validation.

52.3.2.3.1. CLEC shall specify each point within the Client's networks that may originate queries to Sprint's LIDB. This

shall be communicated to the Sprint network point of contact via the format in Appendix C.

52.3.2.4. Sprint shall provide access to Sprint's SS7 gateway to other non-Sprint LIDB providers

52.3.2.5. Sprint shall process CLEC's subscribers' records in LIDB at Parity with Sprint subscriber records, with respect to other LIDB functions Sprint shall indicate to CLEC what additional functions (if any) are performed by LIDB in their network.

52.3.2.6. Sprint shall perform backup and recovery of all of CLEC's data in LIDB at Parity with backup and recovery of all other records in the LIDB, including sending to LIDB all changes made since the date of the most recent backup copy.

#### 52.3.3. Compensation and Billing

52.3.3.1. Access by CLEC to LIDB information in Sprint's LIDB Database - CLEC shall pay a per query charge as detailed in Sprint's applicable tariff or published price list.

52.3.3.2. Access to Other Companies' LIDB Database - Access to other companies' LIDB shall be provided at a per query rate established for hubbing of \$0.0035 and a rate for LIDB queries and switching of \$0.065 for a combined rate of \$0.0685.

52.3.4. Authorized Uses of Sprint's LIDB Database - Use of Sprint's LIDB Database by CLEC and CLEC's customers is limited to obtaining information, on a call-by-call basis, for delivery of name with Caller ID functions and shall not be stored or resold by CLEC or its customers in any form.

#### 52.4. Calling Name Database (CNAM)

52.4.1. The CNAM database is a transaction-oriented database accessible CCS network. It contains records associated with subscribers' Line Numbers and Names. CNAM accepts queries from other Network Elements, or CLEC's network, and provides the calling name. The query originator need not be the owner of CNAM data. CNAM provides the calling parties name to be delivered and displayed to the terminating caller with 'Caller ID with Name'.

#### 52.4.2. Technical Requirements

52.4.2.1. Storage of CLEC Caller Names in the Sprint CNAM Database is available under the terms of a separate contract

52.4.2.2. Sprint shall provide access to Sprint CNAM database for purpose of receiving and responding to Calling Name Service Queries.

52.4.2.2.1. CLEC shall specify each point within the CLEC's networks that may originate queries to Sprint's CNAM database. This shall be communicated to the Sprint network point of contact via the format in Appendix C.

52.4.2.3. Sprint shall provide access to Sprint's SS7 gateway to other non-Sprint CNAM providers for the purpose of receiving and responding to Calling Name Queries where the names are stored in other non-Sprint databases.

#### 52.4.3. Compensation and Billing

52.4.3.1. Access by CLEC to CNAM information in Sprint's CNAM Database - CLEC shall pay a per query charge as detailed in Sprint's applicable tariff or published price list.

52.4.3.2. Access to Other Companies' CNAM Database - Access to other companies CNAM shall be provided at a per query rate established for hubbing of \$0.0035 and a rate for CNAM queries and switching of \$0.016 for a combined rate of \$0.0195.

52.4.4. Authorized Uses of Sprint's CNAM Database - Use of Sprint's CNAM Database by CLEC and its customers is limited to obtaining information, on a call-by-call basis, for delivery of name with Caller ID functions and shall not be stored or resold by CLEC or its customers in any form.

#### 52.5. Toll Free Number Database

52.5.1. The Toll Free Number Database provides functionality necessary for toll free (e.g., 800 and 888) number services by providing routing information and additional vertical features (i.e., time of day routing by location, by carrier and routing to multiple geographic locations) during call setup in response to queries from STPs. The Toll Free records stored in Sprint's database are downloaded from the SMS/800. Sprint shall provide the Toll Free Number Database in accordance with the following:

##### 52.5.1.1. Technical Requirements

52.5.1.1.1. Sprint shall make the Sprint Toll Free Number Database available for CLEC to query, from CLEC's designated switch including Sprint unbundled local switching with a toll-free number and originating information.

52.5.1.1.2. The Toll Free Number Database shall return CLEC identification and, where applicable, the queried toll

free number, translated numbers and instructions as it would in response to a query from a Sprint switch.

52.5.1.2. Interface Requirements. The signaling interface between the CLEC or other local switch and the Toll-Free Number database shall use the TCAP protocol, together with the signaling network interface.

#### 52.5.2. Compensation and Billing

52.5.2.1. Access by CLEC to the Toll Free Number Database Information - CLEC shall pay a per query charge as detailed in Sprint's applicable tariff or published price list.

52.5.3. Authorized Uses of Sprint's Toll Free Database - Use of Sprint's Toll Free Database by CLEC and its customers is limited to obtaining information, on a call-by-call basis, for proper routing of calls in the provision of toll free exchange access service or local toll free service.

#### 52.6. Local Number Portability Local Routing Query Service

52.6.1. TCAP messages originated by CLEC's SSPs and received by Sprint's database will be provided a response upon completion of a database lookup to determine the LRN. This information will be populated in industry standard format and returned to CLEC so that it can then terminate the call in progress to the telephone number now residing in the switch designated by the LRN. Sprint shall provide the LNP Query Service in accordance with the following:

##### 52.6.1.1. Technical Requirements

52.6.1.1.1. CLEC agrees to obtain, prior to the initiation of any query or other service under this Agreement, a NPAC/SMS User Agreement with Lockheed. CLEC will maintain the NPAC/SMS User Agreement with the Lockheed, or its successor, as long as it continues to make LNP queries to the Sprint database. Failure to obtain and maintain the NPAC/SMS User Agreement is considered a breach of this Agreement and is cause for immediate termination of service. Sprint shall not be liable for any direct or consequential damages due to termination because of lack of a NPAC/SMS User Agreement.

52.6.1.1.2. First Usage Notification - Sprint will provide CLEC with notification of the first ported number order processed in each NPA/NXX eligible for porting. This shall be

provided via E-mail to CLEC's designee on a mutually agreeable basis.

#### 52.6.2. Compensation and Billing

52.6.2.1. Access by CLEC to the LNP Database information -- CLEC shall pay a per query charge as detailed in Sprint's applicable tariff or published price list.

52.6.2.2. NPAC Costs – Sprint's LNP Database service offering does not include the cost of any charges or assessments by Number Portability Administrative Centers, whether under the NPAC/SMS User Agreement with Lockheed, or otherwise, or any charges assessed directly against CLEC as the result of the FCC LNP Orders or otherwise by any third-party. These costs include the costs assessed against telecommunications carriers to pay for NPAC functions as permitted by the FCC and applicable legal or regulatory bodies. SPRINT shall have no liability to CLEC or the NPAC for any of these fees or charges applicable to CLEC, even though it may pay such charges for other Sprint companies.

### 53. OPERATIONS SUPPORT SYSTEMS (OSS)

53.1. Sprint will offer unbundled access to Sprint's operations support systems, subject to the availability, development and implementation of such operations support systems, to the extent technically feasible in a non-discriminatory manner at Parity. OSS consists of pre-ordering, ordering, provisioning, maintenance and repair, and billing functions supported by Sprint's databases and information. The OSS element includes access to all loop qualification information contained in Sprint's databases or other records, including information on whether a particular loop is capable of providing advanced services. The prices for loop qualification information are included in the pricing Attachment of this Agreement. Until the implementation of necessary Electronic Interfaces, Sprint shall provide such services on a non-discriminatory basis to CLEC as it provides to Sprint, its Affiliates or any other entity that obtains such services.

### 54. DARK FIBER

#### 54.1. General Rules and Definition

54.1.1. Dark fiber is an optical transmission facility without attached multiplexing, aggregation or other electronics. It is fiber optic cable that connects two points within Sprint's network that has not been activated through connection to the electronics that "light" it and render it capable of carrying telecommunications services.

54.1.2. Sprint will unbundle dark fiber for the dedicated transport, loop and sub-

loop network elements. Dark fiber is not a separate network element, but a subset of dedicated transport, loop and subloop network elements. Any rules and guidelines for these network elements, including accessibility, will apply to dark fiber.

#### 54.2. Fiber Availability

54.2.1. Spare fibers in a sheath are not considered available if Sprint has an established project to put the fiber in use within the current year and the following year.

54.2.2. Sprint will also reserve a reasonable amount of spare capacity in each fiber sheath to facilitate maintenance and rearrangements and changes. A minimum of four fibers in each sheath will be reserved for this purpose.

54.2.3. Dark fiber will be leased on a first come first served basis.

54.2.4. CLECs can reserve fiber by submitting orders and paying for it. A CLEC may lease from two fibers up to 25% of the available fibers in a sheath. CLEC leased fiber is subject to the take-back provisions listed below.

54.2.5. Sprint will not restrict the use of leased dark fiber.

#### 54.3. Interconnection Arrangements

54.3.1. Rules for gaining access to unbundled network elements apply to dark fiber. CLEC must establish a point of interconnection (POI) to gain access. Virtual and physical collocation arrangements would normally be used by CLEC to locate the optical electronic equipment necessary to "light" leased dark fiber. For access at technically feasible points not specified in this Section 53.3, CLEC will request access via the BFR process.

54.3.2. The CLEC that requests dark fiber must be able to connect to the Sprint fiber by means of fiber patch panel. The CLEC fiber patch panel must meet the requirements of using the same optical cross connects that Sprint uses for its fiber patch panel.

54.3.3. Dark fiber will be provided in the following four manners:

54.3.3.1. Dark fiber transport will be between two Sprint fiber patch panels (FPP) in two separate Sprint offices. CLEC will establish a FPP POI in each office. Sprint and CLEC FPP will be connected via fiber patch cords.

54.3.3.2. Dark fiber feeder will be between two Sprint FPPs, one located in a Sprint central office and one at a remote location, such as a digital loop carrier. CLEC will establish a FPP POI in the Sprint central office which will be connected to the Sprint FPP via a fiber patch cord. CLEC will establish a POI at the remote

site and order a collocation or interconnection arrangement at Sprint's FPP. A fiber "pigtail" will connect the virtual appearance on Sprint's FPP and the CLEC POI.

54.3.3.3. Dark fiber distribution is between a Sprint FPP located outside a Sprint central office (e.g., remote site) and a FPP located at a customer premises. CLEC must establish a POI in the Sprint remote site as described above and is responsible for providing facilities on the customer's premises.

54.3.3.4. Dark fiber loop is between a Sprint FPP located in a Sprint central office and a FPP located at a customer's premises. CLEC must establish a POI in the Sprint central office and is responsible for providing facilities on the customer's premises.

#### 54.4. Rules for Take Back

54.4.1. Sprint can take back dark fiber to meet its carrier of last resort obligations.

54.4.2. Sprint will provide CLEC 12 months written notice prior to taking back fiber.

54.4.3. If multiple CLECs have leased fiber within a single sheath, Sprint will use the following criteria for taking back fiber.

54.4.3.1. Leased fibers not in use will be taken back first. Leased fibers not in use for the longest period of time will be taken back first.

54.4.3.2. Leased fibers with the lowest capacity will be taken back next. For example, fibers with an OC-3 system will be taken back before those with OC-12 electronics. Those leased for the shortest period will be taken back first.

54.4.4. The Dispute Resolution Procedures found in Section 23 of this Agreement will be followed if CLEC wishes to contest Sprint's decision to take back its leased fiber.

#### 54.5. Ordering Procedure

54.5.1. CLEC will submit orders for dark fiber via the local service request (LSR) process. Specific ordering instructions and procedures for determining the location of Sprint fiber are outlined in the Joint Operations Plan. Charges will apply for pre-order inquiries

54.5.2. Sprint will review the request for availability and will respond to a CLEC within 30 days regarding the acceptance or rejection of the order. If the order is accepted, the response will provide the planned installation date.

54.5.3 The order will be completed if dark fiber is available.



54.5 4. An explanation will accompany any rejection to a CLEC.

54.5.5. CLEC will follow the Dispute Resolution Process outlined in Section 23 of this Agreement if they wish to contest the rejection.

54.6. Maintenance and Testing

54.6.1. Each carrier is responsible for maintaining the facilities that it owns.

54.6.2. Sprint tests fiber at the time of original installation and will not test it again until an interconnection is established. CLEC will conduct the end-to-end test in conjunction with dark fiber splicing.

54.6.3. Cooperative testing is available at CLEC's request. Additional rates and charges will apply.

54.7. Rates and Charges

54.7.1. The rates and charges for dark fiber will be developed as part of the BFR process as set forth in Section 43 of this Agreement.

54.7.2. Special construction charges may apply to accommodate a CLEC requested arrangement.

**55. LOOP FREQUENCY UNBUNDLING**

55.1. General Terms

55.1.1. Sprint shall make available as a separate unbundled network element the HFS UNE for line sharing by CLEC. Prices for each of the separate components offered in association with the HFS UNE are reflected in Table One to this Agreement unless otherwise noted.

55.1.2. Pursuant to FCC rules and orders as applicable under the provisions of Paragraph 3.3 of this Agreement, Sprint shall provide unbundled access to the HFS UNE at its central office locations and at any accessible terminal in the outside loop plant, subject to the execution by CLEC of a collocation agreement and the availability of space.

55.1.3. Sprint shall make the HFS UNE available to CLEC in only those instances when Sprint is the provider of analog circuit-switched voice band service on that same copper loop to the same End User.

55 1.3.1. Sprint's HFS UNE unbundling obligation does not apply where copper facilities do not exist.

55 1.3.2. When requested, Sprint will move an end user's analog circuit switched voice band service from digital loop carrier derived service to spare copper facilities, if available, via the non-recurring charges listed in Table One at CLEC's expense.

- 55.1.4. Reverse ADSL Loops. If a CLEC's ADSL Transmission Unit (including those integrated into DSLAMs) is attached to Sprint's Network and if an ADSL copper loop should start at an outside location, and is looped through a host or remote, and then to the subscriber, the copper plant from the outside location to the Sprint host or remote central office must be a facility dedicated to ADSL transmission only and not part of Sprint's regular feeder or distribution plant.
- 55.1.5. In the event that the End User being served by CLEC via HFS UNE terminates its Sprint-provided analog circuit-switched voice band service, or when Sprint provided analog circuit switched voice band service is disconnected due to "denial for non-pay", Sprint shall provide reasonable notice to CLEC prior to disconnect. CLEC shall have the option of purchasing an entire stand-alone UNE Non-Voice Grade loop if it wishes to continue to provide advanced services to that End User. If CLEC notifies Sprint that it chooses this option, CLEC and Sprint shall cooperate to transition DSL service from the HFS UNE to the stand-alone loop without any interruption of service pursuant to the provisions set forth below. If CLEC declines to purchase the entire stand alone UNE Non-Voice Grade loop, Sprint may terminate the HFS UNE.
- 55.1.6. Sprint will use reasonable efforts to accommodate the continued use by CLEC as a stand-alone UNE Non-Voice Grade loop of the copper loop facilities over which CLEC is provisioning advanced services at the time that the Sprint-provided analog circuit-switched voice band service terminates; provided that:
- 55.1.6.1. adequate facilities are available to allow the provisioning of voice service over such other facilities, and
- 55.1.6.2. CLEC agrees to pay any additional ordering charges associated with the conversion from the provisioning of HFS UNE to a stand alone unbundled non-voice grade loop as specified in the Existing Interconnection Agreement (excluding conditioning charges).
- 55.1.7. If facilities do not exist and the End User being served by CLEC via HFS UNE has its Sprint-provided analog circuit-switched voice band service terminated and another carrier ("Voice CLEC") seeks to provide voice services to the End User being served by CLEC via HFS UNE, Sprint will provide CLEC advanced written notice that Sprint is disconnecting its voice service to the customer and continue to allow the provision of advanced services by CLEC over the copper facilities as an entire stand-alone UNE Non-Voice Grade loop until such time as the Voice CLEC certifies to Sprint that the End User has chosen the Voice CLEC for the provision of voice service over the existing facilities. Sprint will provide reasonable notice to CLEC prior to disconnecting the HFS UNE.

55.1.8. CLECs may provide integrated voice and data services over the same Loop by engaging in "line splitting" as set forth in paragraph 18 of the FCC's Line Sharing Reconsideration Order (CC Docket Nos. 98-147, 96-98), released January 19, 2001. Any line splitting between two CLECs shall be accomplished by prior negotiated arrangement between those CLECs. To achieve a line splitting capability, CLECs may order and combine in a line splitting configuration an unbundled xDSL capable Loop terminated to a collocated splitter and DSLAM equipment provided by a participating CLEC, unbundled switching combined with shared transport, collocator-to-collocator connections, and available cross-connects, under the terms and conditions set forth in their Interconnection Agreement(s). The participating CLECs shall provide any splitters used in a line splitting configuration.

55.1.9. Sprint will offer as a UNE or a combination of UNEs, line sharing over fiber fed loops, including loops behind DLCs, under the following conditions:

55.1.9.1. Sprint must first have deployed the applicable technology in the Sprint Network and be providing service to its End Users over such facilities employing the technology;

55.1.9.2. There must be a finding that the provision of High Frequency Spectrum Network Element in this fashion is technically feasible and, to the extent that other UNEs are involved in the provision of such service, that the combination of such elements as are necessary to provide the service is required under the Act.

55.1.9.3. The pricing as set forth in this Agreement would not apply to the provision of such services and appropriate pricing would have to be developed, as well as operational issues associated with the provision of the service.

55.2. Information to be Provided

55.2.1. In connection with the provision of HFS UNE, Sprint shall provide to CLEC:

55.2.1.1 information with respect to the spectrum management procedures and policies that Sprint uses in determining which services can be deployed;

55.2.1.2. information with respect to the rejection of CLEC's provision of advanced services, together with the specific reason for the rejection; and

- 55.2.1.3. information with respect to the number of loops using advanced services technology within the binder and type of technology deployed on those loops.
- 55.2.2. In connection with the provision of HFS UNE, CLEC shall provide to Sprint the following information on the type of technology that CLEC seeks to deploy where CLEC asserts that the technology it seeks to deploy fits within a generic Power Spectral Density (PSD) mask:
  - 55.2.2.1. information in writing (via the service order) regarding the Spectrum Management Class (SMC), as defined in the T1E1.4/2000-002R2 Draft and subsequent updates, of the desired loop so that the loop and/or binder group may be engineered to meet the appropriate spectrum compatibility requirements;
  - 55.2.2.2. the SMC (i.e. PSD mask) of the service it seeks to deploy, at the time of ordering and if CLEC requires a change in the SMC of a particular loop, CLEC shall notify Sprint in writing of the requested change in SMC (via a service order);
  - 55.2.2.3. to the extent not previously provided CLEC must disclose by written notice to Sprint every SMC that the CLEC has implemented on Sprint's facilities to permit effective Spectrum Management.
- 55.2.3. In connection with the provision of HFS UNE, if CLEC relies on a calculation-based approach to support deployment of a particular technology, it must provide Sprint with information on the speed and power at which the signal will be transmitted.
- 55.3. Conditioning, Testing, Maintenance
  - 55.3.1. Sprint will condition loops at the request of CLEC. Conditioned loops are copper loops from which excessive bridge taps, load coils, low-pass filters, range extenders, and similar devices have been removed to enable the delivery of high-speed wireline telecommunications capability, including DSL. Sprint will assess charges for loop conditioning in accordance with the prices listed in Table One. Conditioning charges apply to all loops irrespective of the length of the loop. Sprint will not condition the loop if such activity significantly degrades the quality of the analog circuit-switched voice band service on the loop.
  - 55.3.2. If Sprint declines a CLEC request to condition a loop and Sprint is unable to satisfy CLEC of the reasonableness of Sprint's justification for such refusal, Sprint must make a showing to the relevant state commission that conditioning the specific loop in question will significantly degrade voiceband services
  - 55.3.3. If CLEC requests an ADSL loop, for which the effective loop length

exceeds the ADSL standard of 18 kft (subject to gauge design used in an area), additional non-recurring charges for engineering and load coil removal will apply, plus trip charges and any applicable maintenance charges as set forth in Table One to this Agreement. Non-standard non-voice grade loops will not be subject to performance measurements (unless required by the Commission) or technical specifications, however all of the SMC requirements set forth in Section 3.2 above are applicable. On conditioned non-voice grade loops, both standard (under 18 kft) and non-standard (over 18 kft), Sprint will provide electrical continuity and line balance.

55.3.4. At the installation of the analog circuit-switched voice band service, and in response to reported trouble, Sprint will perform basic testing (simple metallic measurements) by accessing the loop through the voice switch. Sprint expects the CLEC to deploy the testing capability for its own specialized services. If CLEC requests testing other than basic installation testing as indicated above, Sprint and CLEC will negotiate terms and charges for such testing.

55.3.5. In the event both Sprint's analog circuit-switched voice services and the CLEC's services using the high frequency portion of the loop are harmed through no fault of either Party, or if the high frequency portion of the loop is harmed due to any action of Sprint other than loop maintenance and improvements, Sprint will remedy the cause of the outage at no cost to the CLEC. Notwithstanding the foregoing, Sprint will endeavor to provide reasonable notice to CLEC when performing loop maintenance and improvements. Any additional maintenance of service conducted at CLEC's request by Sprint on behalf of the CLEC solely for the benefit of the CLEC's services will be paid for by CLEC at Sprint's labor, time, and material costs.

#### 55.4. Deployment and Interference

55.4.1. In providing services utilizing the high frequency spectrum network element, Sprint shall allow CLEC to deploy underlying technology that does not significantly interfere with other advanced services and analog circuit-switched voice band transmissions.

55.4.2. Sprint shall employ industry accepted standards and practices to maximize binder group efficiency through analyzing the interference potential of each loop in a binder group, assigning an aggregate interference limit to the binder group, and then adding loops to the binder group until that limit is met. Disputes regarding the standards and practices employed in this regard shall be resolved through the Dispute Resolution Process set forth in Section 23 of this Agreement.

55.4.3. Until long term industry standards and practices can be established, a

particular technology using the high frequency portion of the loop shall be presumed acceptable for deployment under certain circumstances. Deployment that is consistent with at least one of the following circumstances presumes that such loop technology will not significantly degrade the performance of other advanced services or impair traditional analog circuit-switched voice band services:

55.4.3.1. Complies with existing industry standards, including an industry-standard PSD mask, as well as modulation schemes and electrical characteristics;

55.4.3.2. Is approved by an industry standards body, the FCC, or any state commission or;

55.4.3.3. Has been successfully deployed by any carrier without significantly degrading the performance of other services; provided however, where CLEC seeks to establish that deployment of a technology falls within the presumption of acceptability under this paragraph 4.2.3, the burden is on CLEC to demonstrate to the state commission that its proposed deployment meets the threshold for a presumption of acceptability and will not, in fact, significantly degrade the performance of other advanced services or traditional voice band services. However, once a state commission determines that the CLEC has met this threshold the technology is presumed acceptable in states other than the one in which the technology was initially approved.

55.5 If a deployed technology significantly degrades traditional analog circuit-switched voice band services, Sprint will notify the CLEC and give them a reasonable opportunity to correct the problem. CLEC will immediately stop any new deployment until the problem is resolved to mitigate disruption of Sprint and other carrier services. If Sprint and the CLEC are unable to resolve the problem, they will present factual evidence to the State Commission for review and determination. If the Commission determines that the CLECs technology is the cause of the interference, the CLEC will remedy the problem by reducing the number of existing customers utilizing the technology or by migrating them to another technology that does not disturb.

55.6. If a deployed technology significantly degrades other advanced services, the affected Party will notify the interfering Party and give them a reasonable opportunity to correct the problem. The interfering Party will immediately stop any new deployment until the problem is resolved to mitigate disruption of other carrier services. If the affected parties are unable to resolve the problem, they will present factual evidence to the State Commission for review and determination. If the Commission determines that the deployed technology is the cause of the interference, the deploying Party will remedy the problem by reducing the number of existing customers utilizing the technology or by migrating them to another

technology that does not disturb.

55.7. When the only degraded service itself is a known disturber and the newly deployed technology is presumed acceptable pursuant to 45.7.2, the degraded service shall not prevail against the newly deployed technology.

55.8. If Sprint denies a request by CLEC to deploy a technology, it will provide detailed, specific information providing the reasons for the rejection.

55.9. Splitters

55.9.1 In providing access to the High Frequency Spectrum Network Element, CLEC will purchase, install and maintain the splitter in their caged or cageless collocation space, unless Sprint and CLEC negotiate other network architecture options for the purchase, installation and maintenance of the Splitter. All wiring connectivity from the CLEC DSLAM (Sprint analog voice input to the splitter and combined analog voice/data output from the splitter) will be cabled out to the Sprint distribution frame for cross connection with jumpers. Prices for these services are reflected in Table One. Sprint will provide and, if requested, install the cabling from the CLEC collocation area to Sprint's distribution frame and be reimbursed, as applicable, per the normal collocation process, except that no charges shall apply for any reassignment of carrier facilities ("CFA") or reduction of existing facilities. CLEC will make all cable connections to their equipment.

## 56. FORECAST

56.1 CLEC will provide monthly forecast information to Sprint updated quarterly on a rolling twelve-month basis for requests for Voice Grade Loops (including Subloops), Non-Voice Grade Loops (including Subloops), and HFS UNEs. An initial forecast meeting should be held soon after the first implementation meeting. A forecast should be provided at or prior to the first implementation meeting. The forecasts shall project the gain/loss of shared lines on a monthly basis by Sprint wire center and shall include a description of any major network projects planned by CLEC that will affect the demand. Forecast information shall be subject to the confidentiality provisions of this Agreement. Forecast information will be used solely for network planning and operations planning and shall not be disclosed within Sprint except as required for such purposes. Under no circumstances shall CLEC specific forecast information be disclosed to Sprint's retail organization (excluding solely those operational personnel engaged in network and operations planning), product planning, sales or marketing.

56.2. Upon request of either Party, the Parties shall meet to review their forecasts going forward if forecasts vary significantly from actual results.

56.3. Each Party shall provide a specified point of contact for planning purposes.

## **57. INDEMNIFICATION**

- 57.1. Each Party, whether a CLEC or Sprint, agrees that should it cause any Non-standard DSL technologies (i.e. technologies that do not meet the requirements of 55.4.3) to be deployed or used in connection with or on Sprint facilities, that Party will pay all costs associated with any damage, service interruption or other telecommunications service degradation, or damage to the other Party's facilities.
- 57.2. For any technology, CLEC represents that its use of any Sprint network element, or of its own equipment or facilities in conjunction with any Sprint network element, will not materially interfere with or impair service over any facilities of Sprint, its affiliated companies or connecting and concurring carriers, cause damage to Sprint's plan, impair the privacy of any communications carried over Sprint's facilities or create hazards to employees or the public. Upon reasonable written notice and after a reasonable opportunity to cure, Sprint may discontinue or refuse service if CLEC violates this provision, provided that such termination of service will be limited to CLEC's use of the element(s) causing the violation. Sprint will not disconnect the elements causing the violation if, after receipt of written notice and opportunity to cure, CLEC demonstrates that their use of the network element is not the cause of the network harm

## **58. LOOP MAKE-UP INFORMATION**

- 58.1. To the extent technically feasible, CLEC will be given access to Loop Qualification information and OSS interfaces that Sprint is providing any other CLEC and/or Sprint or its affiliates. Sprint shall make available this Loop Qualification information in a non-discriminatory manner at Parity with the data and access it gives itself and other CLECs, including affiliates, so that CLEC may make an independent judgement about whether the loop is capable of supporting the advanced services equipment CLEC seeks to install. The charges for Loop Qualification are set forth in Table One to this Agreement.
- 58.2. Subject to Section 58.1 above, Sprint's Loop Qualification will provide response to CLEC queries. Until replaced with automated OSS access, Sprint will provide Loop Qualification access on a manual basis.
- 58.3. Information provided to the CLEC will not be filtered or digested in a manner that it would affect the CLEC's ability to qualify the loop for advanced services. Sprint will not refuse to supply information based on the availability of products offered by Sprint.
- 58.4. Sprint shall provide Loop Qualification based on the individual telephone number or address of an end-user in a particular wire center or NXX code, whether the end user at that number or address is served by Sprint or resale of Sprint's service or via a Sprint unbundled loop. Subject to the foregoing, Loop Qualification requests will be rejected if the service address is not found within existing serving



address information, if the telephone number provided is not a working number or if the POI identified is not a POI where the requesting CLEC connects to the Sprint LTD network.

- 58.5. Errors identified in validation of the Loop Qualification inquiry order will be passed back to the CLEC.
- 58.6. Sprint may provide the requested Loop Qualification information to the CLECs in whatever manner Sprint would provide to their own internal personnel, without jeopardizing the integrity of proprietary information (i.e. – fax, intranet inquiry, document delivery, etc.). If the data is provided via fax, CLEC must provide a unique fax number used solely for the receipt of Loop Qualification information.
- 58.7. If CLEC does not order Loop Qualification prior to placing an order for a loop for the purpose of provisioning of an advanced service and the advanced service cannot be successfully implemented on that loop, CLEC agrees that:
  - 58.7.1. CLEC will be charged a Trouble Isolation Charge to determine the cause of the failure;
  - 58.7.2. If Sprint undertakes Loop Qualification activity to determine the reason for such failure, CLEC will be charged a Loop Qualification Charge; and
  - 58.7.3. If Sprint undertakes Conditioning activity for a particular loop to provide for the successful installation of advanced services, CLEC will pay applicable conditioning charges as set forth in Table One pursuant to Section 45.2 of this Agreement.

## 59. VOICE UNE-P AND EEL

### 59.1. Combination of Network Elements

- 59.1.1. Notwithstanding any other provision of this Agreement, CLEC may order Unbundled Network Elements either individually or in the combinations of VOICE UNE-P and EEL as specifically set forth in this Section of the Agreement.

### 59.2. Definitions

- 59.2.1. EEL - Enhanced Extended Link (EEL). EEL for purposes of this Agreement refers to the existing unbundled network elements, specifically NID, loop, multiplexing (MUX) if necessary and transport, in the Sprint Network.
- 59.2.2. VOICE UNE-P - Voice Unbundled Network Element Platform (VOICE UNE-P). VOICE UNE-P for purposes of this Agreement refers to the existing unbundled network elements, specifically NID, Loop, Local Circuit Switching, Shared Transport, and Local Tandem Switching, in the Sprint Network and is used to carry traditional POTS analog circuit-

switched voice band transmissions.

59.3. General Terms and Conditions

59.3.1. Sprint will allow CLEC to order each Unbundled Network Element individually in order to permit CLEC to combine such Network Elements with other Network Elements obtained from Sprint as provided for herein, or with network components provided by itself or by third parties to provide telecommunications services to its customers, provided that such combination is technically feasible and would not impair the ability of other carriers to obtain access to other unbundled network elements or to interconnect with Sprint's network or in combination with any other Network Elements that are currently combined in Sprint's Network.

59.3.2. Sprint will provide CLEC access to VOICE UNE-P and EEL as provided in this Agreement. CLEC is not required to own or control any of its own local exchange facilities before it can purchase or use VOICE UNE-P or EEL to provide a telecommunications service under this Agreement. Any request by CLEC for Sprint to provide combined UNEs that are not otherwise specifically provided for under this Agreement will be made in accordance with the BFR process described in Section 2.22 and made available to CLEC upon implementation by Sprint of the necessary operational modifications.

59.3.3. The provisioning of VOICE UNE-P and EEL combinations is limited to existing facilities and Sprint is not obligated to construct additional facilities to accommodate any request by CLEC.

59.3.4. Notwithstanding Sprint's general duty to unbundle local Circuit Switching, Sprint shall not be required to unbundle local Circuit Switching, nor provide VOICE UNE-P for CLEC when CLEC serves end-users with four or more voice grade (DS0) equivalents or lines provided that Sprint provides nondiscriminatory access to combinations of unbundled loops and transport (EELs) throughout Density Zone 1, when Sprint's local circuit switches are located in the top 50 Metropolitan Statistical Areas as set forth in Appendix B of the *Third Report and Order and Fourth Further Notice of Proposed Rulemaking* in CC Docket 96-98, and in Density Zone 1, as defined in §69.123 on January 1, 1999 (the Exemption). Sprint may audit CLEC's UNE-P customer base in accordance with Section 7 of the Agreement to ensure CLEC's adherence to the Exemption.

59.4 Specific Combinations and Pricing

59.4.1 In order to facilitate the provisioning of VOICE UNE-P and EEL Sprint shall support the ordering and provisioning of these specific combinations as set forth below.

59.4.2. The Parties agree to negotiate an acceptable interim solution and support the development of industry standards for joint implementation. Ordering and provisioning for VOICEUNE-P and EEL will be converted to industry standards within a reasonable period of time after those standards have been finalized and Sprint has had the opportunity to implement necessary operation modifications.

59.5. Sprint Offers the Following Combinations of Network Elements

59.5.1. Voice Unbundled Network Element Platform (UNE-P). VOICE UNE-P is the combination of the NID, Loop, Local Circuit Switching, Shared Transport, and Local Tandem Switching network elements.

59.5.1.1. Sprint will offer the combination of the NID, Loop, Local Circuit Switching, Shared Transport, and Local Tandem Switching (where Sprint is the provider of Shared Transport and Local Tandem Switching) unbundled network elements to provide VOICEUNE-P at the applicable recurring charges and non-recurring charges as specified in Table One for VOICE UNE-P plus the applicable Service Order Charge.

59.5.1.2. Until such time as Sprint can bill the recurring charges for usage based VOICE UNE-P elements (Local Circuit Switching, Shared Transport, Local Tandem Switching), these charges will be billed to CLEC at the recurring flat rate charge reflected in Table One. This rate will be \$10.43 per port per month in Sprint's Centel territory and \$6.93 per port per month in Sprint's United territory. Upon the implementation of the necessary operational modifications, Sprint will convert from billing CLEC based on this flat rated monthly charge to applicable usage based charges specified in Table One for the VOICE UNE-P network elements.

59.5.1.3. Sprint will provide originating and terminating access records to CLEC for access usage over UNE-P. CLEC will be responsible for billing the respective originating and/or terminating access charges directly to IXCs.

59.5.1.4. Sprint will provide CLEC toll call records that will allow it to bill its end users for toll charges. Such record exchange will be in industry standard EMI format at the charges set forth in Table One. Any non-standard requested format would be handled through the BFR process as set forth in Section 2.22 of this Agreement.

59.5.1.5. Notwithstanding any statement to the contrary in this Section, CLEC's end-user is not prohibited from utilizing UNE-P to access data through dial-up.

59.5.2. EEL is the combination of the NID, Loop, and Dedicated Transport network elements.

59.5.2.1 Sprint will offer the combination of unbundled loops with unbundled dedicated transport as described herein to provide EEL at the applicable recurring and non-recurring charges as specified in Table One for EEL, the applicable recurring and nonrecurring charges for cross connects and Service Order Charges. Sprint will provide unbundled 2 or 4-wire analog, 2-wire digital, DS1, or DS3 loops cross-connected to unbundled voice grade/DS0, DS1, or DS3 dedicated transport facilities (DS0 dedicated transport is only available between Sprint central offices) for CLEC's provision of a Telecommunications Service to CLEC's own end user customers.

59.5.2.2. Multiplexing shall be provided as necessary as part of dedicated transport at the prices specified in Table One.

59.5.2.3. In order to obtain EELs a requesting carrier must be providing a "significant amount of local exchange service" over the proposed EEL to the end user customer, as that phrase is defined by the FCC.

59.5.2.4. Notwithstanding the above limitations, pursuant to Section 47 of this Agreement, Sprint will offer EELs where the component UNEs are not previously or currently combined where Sprint is not required to provide local switching for switching used to serve end users with four or more lines in access density zone 1, in the top 50 Metropolitan Statistical Areas.

## PART F - INTERCONNECTION

### 60. LOCAL INTERCONNECTION TRUNK ARRANGEMENT

60.1 The Parties shall initially reciprocally terminate Local Traffic and IntraLATA/InterLATA toll calls originating on the other Party's network as follows:

60.1.1. The Parties shall make available to each other two-way trunks for the reciprocal exchange of combined Local Traffic, Information Access Traffic, and non-equal access IntraLATA toll traffic.

60.1.1.1. The Parties agree to initially use two-way trunks (one-way directionalized) for an interim period. The Parties shall transition from directionalized two-way trunks upon mutual agreement, absent engineering or billing issues. The Parties shall transition all one-way trunks established under this Agreement.

60.2. Separate two-way trunks will be made available for the exchange of equal-access InterLATA or IntraLATA interexchange traffic that transits Sprint's network.

60.3. Separate trunks will be utilized for connecting CLEC's switch to each 911/E911 tandem.

60.4 Point of Interconnection

60.4.1 Physical Point of Interconnection. CLEC must establish a minimum of one Physical POI within in each LATA, at any technically feasible point, within Sprint's operating territory. Sprint reserves the right to establish its own Physical POI if CLEC elects to file, and the Commission approves, CLEC's cost studies for transport.

60.4.1.1. CLEC will be responsible for engineering and maintaining its network on its side of the Physical POI. Sprint will be responsible for engineering and maintaining its network on its side of the Physical POI.

60.4.1.2. For construction of new facilities when the parties choose to interconnect at a mid-span meet, CLEC and Sprint will jointly provision the facilities that connect the two networks. Sprint will be the "controlling carrier" for purposes of MECOD guidelines, as described in the joint implementation plan. Sprint will provide fifty percent (50%) of the facilities or to its exchange boundary, whichever is less.

60.4.1.3. If third party (*i.e.* Competitive Access Provider or "CAP") leased facilities are used for interconnection, the Physical POI will be defined as the Sprint office in which the third party's leased circuit terminates.

60.4.1.4. If CLEC utilizes leased facilities under a meet point arrangement between Sprint and a third party (*i.e.* a connecting ILEC) the Physical POI will be Sprint office where the leased facility terminates.

60.4.2. Virtual Point of Interconnection. The CLEC must establish a Virtual POI, or an additional Physical POI, within each of Sprint's mandatory local calling areas, different from the local calling area where the existing Physical POI resides, for those local calling areas in which the CLEC wants to receive local calls.

60.4.2.1. CLEC may establish a VPOI by leasing unbundled dedicated transport from Sprint between the Physical and Virtual POIs

## **61. INTERCONNECTION COMPENSATION MECHANISMS**

### **61.1. Interconnection Compensation**

61.1.1. For Sprint-originated traffic, Sprint is responsible for transport to the Physical POI when the Physical POI is within the same local calling area where the call originates.

61.1.2. Where Virtual POIs are required, for Sprint-originated traffic, the CLEC is responsible for purchasing unbundled dedicated transport between the Virtual POIs and Physical POI. Sprint is responsible for transport to the Virtual POI when the Virtual POI is within the same local calling area where the call originates.

61.1.3. For CLEC-originated traffic, CLEC is responsible for transport to the Physical POI.

61.2. Compensation for Local Traffic Transport and Termination

61.2.1 The Physical POI determines the point at which the originating carrier shall begin paying the terminating carrier for the completion of that traffic. The following compensation elements shall apply:

61.2.1.1. "Transport," which includes dedicated and common transport and any necessary Tandem Switching of Local Traffic from the interconnection point between the two carriers to the terminating carrier's end-office switch that directly serves the called end-user; and

61.2.1.1.1. If CLEC provides one-hundred percent (100%) of the dedicated transport between the CLEC switch and the Sprint switch, establishing the Physical POI at a Sprint office (via lease of meet-point circuits between Sprint and a third-party, lease of third party facilities, or construction of its own facilities) CLEC may charge Sprint for a proportionate amount of the dedicated transport based on relative usage of the facility for each Party's originating traffic using one of the following, as appropriate:

61.2.1.1.1.1. Sprint's dedicated interconnection rate;

61.2.1.1.1.2. Its own costs if filed and approved by a commission of appropriate jurisdiction; and

61.2.1.1.1.3. The actual lease cost of the interconnecting facility.

61.2.1.2. "Termination," which includes the switching of Local Traffic at the terminating carrier's end office switch.

61.2.1.3. The transport and termination charges for Local Traffic flowing through a Physical POI shall be as follows:

61.2.1.4. In a meet point arrangement, when calls from CLEC are terminating on Sprint's network through the Sprint Tandem Switch, CLEC will pay Sprint for transport charges from the Physical POI to the Tandem for unbundled dedicated transport. CLEC shall also pay a charge for Tandem Switching, common transport to the end office and end-office termination

61.2.1.5. When the Physical POI is at the Sprint Tandem Switch, CLEC shall pay a charge for Tandem Switching, common transport to the end office and end-office termination

61.2.1.5.1. Charges billed to Sprint by CLEC for the transport and termination of Local Telecommunications Traffic will be equal to those that Sprint assesses the CLEC for the same services. When Sprint terminates calls to CLEC's subscribers using CLEC's switch, Sprint shall pay CLEC for transport charges from the POI to the CLEC switching center for dedicated transport. Where CLEC is interconnected at a Sprint tandem and Sprint delivers its traffic to CLEC directly from an end office (i.e. direct trunks from Sprint's end office through the POI to the CLEC's switch), Sprint shall also pay CLEC end office termination. Where CLEC is interconnected at a Sprint tandem and Sprint delivers its traffic to CLEC from the tandem and the CLEC switch serves a geographical area greater than or equal to the area served by the Sprint tandem, Sprint shall also pay CLEC for Tandem Switching, common transport, and end-office termination. If the CLEC switch serves a geographical area less than the area served by the Sprint tandem, Sprint shall pay CLEC end-office termination in addition to the charge for dedicated transport.

61.2.1.5.1.1. The following process will be used to validate the geographical area served by the CLEC switch:

61.2.1.5.1.2. Sprint will provide the CLEC information concerning the end offices served by Sprint's tandem, serving area of such end offices, and the percentage of access line served by each end office, for the CLEC to use in determining geographic comparability.

61.2.1.5.1.3. The CLEC will certify in writing that they are offering facilities based service through either owned or leased facilities to the majority of customers served by the end offices.

61.2.1.5.1.4. Sprint may request proof of service at least once per year. Proof will consist of a sample of addresses actually served by the CLEC switch showing that they are meeting the obligation. Such information shall be treated as Confidential and Proprietary under Section 13 of this Agreement.



61.2.1.5.2. CLEC may choose to establish a Physical POI at a Sprint end office, where technically feasible. For CLEC originated calls CLEC shall pay Sprint end-office termination. For Sprint originated traffic terminating to CLEC at that end office, compensation payable by Sprint shall be the same as that detailed in § 60.2.1.5.1 above. If a meet point arrangement is utilized within the local calling area, additional unbundled dedicated transport charges may apply.

## 62. SIGNALING

62.1. Signaling protocol. The parties will interconnect their networks using SS7 signaling where technically feasible and available as defined in FR 905 Telcordia Standards including ISDN user part (ISUP) for trunk signaling and TCAP for CCS-based features in the interconnection of their networks. All Network Operations Forum (NOF) adopted standards shall be adhered to.

62.2. Standard interconnection facilities shall be extended superframe (ESF) with B8ZS line code. Where ESF/B8ZS is not available, CLEC will agree to using other interconnection protocols on an interim basis until the standard ESF/B8ZS is available. Sprint will provide anticipated dates of availability for those areas not currently ESF/B8ZS compatible.

62.2.1. Where CLEC is unwilling to utilize an alternate interconnection protocol, CLEC will provide Sprint an initial forecast of 64 Kbps clear channel capability ("64K CCC") trunk quantities within thirty (30) days of the Effective Date consistent with the forecasting agreements between the parties. Upon receipt of this forecast, the parties will begin joint planning for the engineering, procurement, and installation of the segregated 64K CCC Local Interconnection Trunk Groups, and the associated ESF facilities, for the sole purpose of transmitting 64K CCC data calls between CLEC and Sprint. Where additional equipment is required, such equipment would be obtained, engineered, and installed on the same basis and with the same intervals as any similar growth job for IXC, CLEC, or Sprint internal customer demand for 64K CCC trunks.

## 63. NETWORK SERVICING

### 63.1. Trunk Forecasting

63.1.1. The Parties shall work towards the development of joint forecasting responsibilities for traffic utilization over trunk groups. Orders for trunks that exceed forecasted quantities for forecasted locations will be accommodated as facilities and or equipment are available. The Parties shall make all reasonable efforts and cooperate in good faith to develop alternative solutions to accommodate orders when facilities are not

available. Intercópany forecast information must be provided by the Parties to each other twice a year. The initial trunk forecast meeting should take place soon after the first implementation meeting. A forecast should be provided at or prior to the first implementation meeting. The semi-annual forecasts shall project trunk gain/loss on a monthly basis for the forecast period, and shall include:

63.1.1.1. Semi-annual forecasted trunk quantities (which include baseline data that reflect actual Tandem and end office Local Interconnection and meet point trunks and Tandem-subtending Local Interconnection end office equivalent trunk requirements) for no more than two years (current plus one year);

63.1.1.2. The use of Common Language Location Identifier (CLLI-MSG), which are described in Telcordia documents BR 795-100-100 and BR 795-400-100;

63.1.1.3. Description of major network projects that affect the other Party will be provided in the semi-annual forecasts. Major network projects include but are not limited to trunking or network rearrangements, shifts in anticipated traffic patterns, or other activities by either Party that are reflected by a significant increase or decrease in trunking demand for the following forecasting period.

63.1.2. Parties shall meet to review and reconcile their forecasts if forecasts vary significantly.

63.1.3. Each Party shall provide a specified point of contact for planning forecasting and trunk servicing purposes.

63.1.4. Trunking can be established to Tandems or end offices or a combination of both via either one-way or two-way trunks. Trunking will be at the DS-0, DS-1, DS-3/OC-3 level, or higher, as agreed upon by CLEC and Sprint.

63.1.5. The parties agree to abide by the following if a forecast cannot be agreed to: local interconnection trunk groups will be provisioned to the higher forecast. A blocking standard of one percent (1%) during the average busy hour shall be maintained. Should the Parties not agree upon the forecast, and the Parties engineer facilities at the higher forecast, the Parties agree to abide by the following:

63.1.5.1. In the event that one Party over-forecasts its trunking requirements by twenty percent (20%) or more, and the other Party acts upon this forecast to its detriment, the other Party may recoup any actual and reasonable expense it incurs, subject to the requirements of this Section 62.1.5.3.

63.1.5.2. The calculation of the twenty percent (20%) over-forecast will

be based on the number of DS-1 equivalents for the total traffic volume to Sprint and CLEC.

63.1.5.3. Expenses will only be recouped for non-recoverable facilities that cannot otherwise be used at any time within twelve (12) months after the initial installation for another purpose including but not limited to: other traffic growth between the Parties, internal use, or use with another party.

63.2. Grade of Service. A blocking standard of one percent (1%) during the average busy hour, as defined by each Party's standards, for final trunk groups between a CLEC end office and a Sprint access Tandem carrying meet point traffic shall be maintained. All other final trunk groups are to be engineered with a blocking standard of one percent (1%). Direct end office trunk groups are to be engineered with a blocking standard of one percent (1%).

63.3. Trunk Servicing. Orders between the Parties to establish, add, change or disconnect trunks shall be processed by use of an ASR, or another industry standard eventually adopted to replace the ASR for trunk ordering.

#### **64. NETWORK MANAGEMENT**

64.1 Protective Protocols. Either Party may use protective network traffic management controls such as 7-digit and 10-digit code gaps on traffic toward each other's network, when required to protect the public switched network from congestion due to facility failures, switch congestion or failure or focused overload. CLEC and Sprint will immediately notify each other of any protective control action planned or executed.

64.2. Expansive Controls Protocols. Where the capability exists, originating or terminating traffic reroutes may be implemented by either Party to temporarily relieve network congestion due to facility failures or abnormal calling patterns. Reroutes will not be used to circumvent normal trunk servicing. Expansive controls protocols will only be used when mutually agreed to by the parties.

64.3. Mass Calling. CLEC and Sprint shall cooperate and share pre-planning information, where available, regarding cross-network call-ins expected to generate large or focused temporary increases in call volumes, to prevent or mitigate the impact of these events on the public switched network. Mass calling numbers are not cannot be used in conjunction with INP.

#### **65. USAGE MEASUREMENT**

65.1. Each Party shall calculate terminating interconnection minutes of use based on standard AMA recordings made within each Party's network, these recordings being necessary for each Party to generate bills to the other Party. In the event either Party cannot measure minutes terminating on its network, where technically feasible, the other Party shall provide the measuring mechanism or the Parties

shall otherwise agree on an alternate arrangement.

65.2. Measurement of minutes of use over Local Interconnection trunk groups shall be in actual conversation seconds. The total conversation seconds over each individual Local Interconnection trunk group will be totaled for the entire monthly bill period and then rounded to the next whole minute.

65.3. Prior to the commencement of billing for interconnection, each Party shall provide to the other, the PLU of the traffic terminated to each other over the Local Interconnection trunk groups.

65.3.1. The Parties agree to review the accuracy of the PLU on a regular basis. If the initial PLU is determined to be inaccurate by more than twenty percent (20%), the Parties agree to implement the new PLU retroactively to the Effective Date of the contract.

## **66. TRANSIT TRAFFIC**

66.1. Transit Traffic means the delivery of traffic by CLEC or Sprint originated by the end user of one Party and terminated to a third party LEC, ILEC, or CMRS provider over the local/intraLATA interconnection trunks. The following traffic types will be delivered by either Party: Local Traffic, Information Access Traffic, IntraLATA Toll Traffic and Switched Access Traffic originated from CLEC or Sprint and delivered to such third party LEC, ILEC or CMRS; and intraLATA 800 traffic.

### **66.2. Terms and Conditions**

66.2.1. To the extent required, the originating Party will enter into arrangements with each third party LEC, ILEC, or CMRS provider for the exchange of Transit Traffic to that third party

66.2.2. Each Party acknowledges that the transiting Party does not have any responsibility to pay any third party LEC, ILEC, or CMRS provider charges for termination or any identifiable Transit Traffic from the originating Party. Both Parties reserve the right not to pay such charges on behalf of the originating Party.

### **66.3. Payment Terms and Conditions**

66.3.1. In addition to the payment terms and conditions contained in other sections of this Agreement, the Parties shall compensate each other for transit service as follows:

66.3.1.1. The originating Party shall pay to the transiting Party a transit service charge as set forth in the Pricing Schedule; and

66.3.1.2. If the terminating Party requests, and the transiting Party does not provide, the terminating Party with the originating record in

order for the terminating Party to bill the originating third party, the terminating Party shall default bill the transiting Party for transited traffic which does not identify the originating third party.

66.4. Billing Records and Exchange of Data

66.4.1. Parties will use the best efforts to convert all networks transporting transit traffic to deliver each call to the other Party's network with SS7 Common Channel Interoffice Signaling (CCIS) and other appropriate TCAP messages in order to facilitate full interoperability and billing functions. The Parties agree to send all message indicators, including originating telephone number, local routing number and CIC.

66.4.2. The transiting Party agrees to provide the terminating Party information on traffic originated by a third party CLEC, ILEC, or CMRS provider. To the extent the transiting Party incurs additional cost in providing this billing information, the other Party agrees to reimburse the transiting Party for its direct reasonable and demonstrable cost of providing this information.

66.4.3. To the extent that the industry adopts a standard record format for recording originating and/or terminating transit calls, both Parties agree to comply with the industry-adopted format to exchange records.

67. **RESPONSIBILITIES OF THE PARTIES**

67.1. Sprint and CLEC will review engineering requirements consistent with the Implementation Plan described in Part B, Section 32 and Part C, Part F, Section 63 and otherwise as set forth in this Agreement.

67.2. CLEC and Sprint shall share responsibility for all Control Office functions for Local Interconnection Trunks and Trunk Groups, and both parties shall share the overall coordination, installation, and maintenance responsibilities for these trunks and trunk groups.

67.3. CLEC and Sprint shall:

67.3.1. Provide trained personnel with adequate and compatible test equipment to work with each other's technicians.

67.3.2. Notify each other when there is any change affecting the service requested, including the due date.

67.3.3. Coordinate and schedule testing activities of their own personnel, and others as applicable, to ensure its interconnection trunks/trunk groups are installed per the interconnection order, meet agreed-upon acceptance test requirements, and are placed in service by the due date.

67.3.4. Perform sectionalization to determine if a trouble is located in its facility or its portion of the interconnection trunks prior to referring the trouble to

each other.

- 67.3.5. Advise each other's Control Office if there is an equipment failure which may affect the interconnection trunks.
- 67.3.6. Provide each other with a trouble reporting/repair contact number that is readily accessible and available twenty-four (24) hours/seven (7) days a week. Any changes to this contact arrangement must be immediately provided to the other Party.
- 67.3.7. Provide to each other test-line numbers and access to test lines.
- 67.3.8. Cooperatively plan and implement coordinated repair procedures for the meet point and Local Interconnection trunks and facilities to ensure trouble reports are resolved in a timely and appropriate manner.

## **PART G - INTERIM NUMBER PORTABILITY**

### **68. SPRINT PROVISION OF INTERIM NUMBER PORTABILITY**

- 68.1. Sprint shall provide INP in accordance with requirements of the Act and FCC Rules and Regulations. INP shall be provided with minimum impairment of functionality, quality, reliability and convenience to subscribers of CLEC services until such time as LNP service is offered in the Sprint rate center, in which case INP will be discontinued. Beginning on the date LNP is available in an area, INP orders will no longer be processed, and the Parties will work together to convert the existing INP lines to LNP within a reasonable period of time and minimizing disruptions to end users, as agreed to by the implementation team of both Parties.

### **69. INTERIM NUMBER PORTABILITY**

- 69.1. Interim Number Portability (INP) shall be provided to the extent technical capabilities allow, by a Sprint directed Remote Call Forwarding (RCF). In the event RCF is a purchased feature of the CLEC end user, there is no relationship between RCF and INP. Once LNP is generally available in Sprint's serving area, RCF will be provided only as a retail service offering by Sprint.
- 69.2. Remote Call Forwarding (RCF) is an INP method to provide subscribers with service-provider portability by redirecting calls within the telephone network. When RCF is used to provide interim number portability, calls to the ported number will first route to the Sprint switch to which the ported number was previously assigned. The Sprint switch will then forward the call to a number associated with the CLEC designated switch to which the number is ported. CLEC may order any additional paths to handle multiple simultaneous calls to the same ported telephone number.
- 69.3. The trunking requirements will be agreed upon by Sprint and CLEC resultant from application of sound engineering principles. These trunking options may include SS7 signaling, in-band signaling, and may be one-way or two-way. The trunks used may be the same as those used for exchange of other Local Traffic, Information Access Traffic, and Toll Traffic between Sprint and CLEC.
- 69.4. Local Exchange Routing Guide (LERG) Reassignment. Portability for an entire NXX shall be provided by utilizing reassignment of the block to CLEC through the LERG. Updates to translations in the Sprint switching office from which the telephone number is ported will be made by Sprint prior to the date on which LERG changes become effective, in order to redirect calls to the CLEC switch via route indexing.
- 69.5 Other Currently Available Number Portability Provisions:
- 69.5.1. Where SS7 is available, Sprint shall exchange with CLEC, SS7 TCAP messages as required for the implementation CLASS or other features available in the Sprint network, if technically feasible.

69.5.2. Upon notification that CLEC will be initiating INP, Sprint shall disclose to CLEC any technical or capacity limitations that would prevent use of the requested INP in the affected switching office. Sprint and CLEC shall cooperate in the process of porting numbers to minimize subscriber out-of-service time, including promptly updating switch translations, where necessary, after notification that physical cut-over has been completed (or initiated), as CLEC may designate.

69.5.3. For INP, CLEC shall have the right to use the existing Sprint 911 infrastructure for all 911 capabilities. When RCF is used for CLEC subscribers, both the ported numbers and shadow numbers shall be stored in ALI databases. CLEC shall have the right to verify the accuracy of the information in the ALI databases.

69.5.3.1. When any INP method is used to port a subscriber, the donor provider must maintain the LIDB record for that number to reflect appropriate conditions as reported to it by the porting service provider. The donor must outclear call records to CLEC for billing and collection from the subscriber. Until such time as Sprint's LIDB has the software capability to recognize a ported number as CLEC's, Sprint shall store the ported number in its LIDB at no charge and shall retain revenue for LIDB look-ups to the ported number. At such time as Sprint's LIDB has the software capability to recognize that the ported number is CLEC's then, if CLEC desires to store numbers on Sprint's LIDB, the parties shall negotiate a separate LIDB database storage and look-up agreement.

69.5.4. Sprint will send a CARE transaction 2231 to notify IXC that access is now provided by a new CLEC for that number.

## **70. REQUIREMENTS FOR INP**

### **70.1. Cut-Over Process**

70.1.1. Sprint and CLEC shall cooperate in the process of porting numbers from one carrier to another so as to limit service outage for the ported subscriber.

70.1.1.1. For a Coordinated Cutover Environment, Sprint and CLEC will coordinate the disconnect and switch translations as close to the requested time as possible. The coordination shall be pre-specified by CLEC and agreed to by both parties and in no case shall begin more than thirty (30) minutes after the agreed upon time.

70.1.1.2. For a Non-Coordinated Cutover Environment, the Parties will agree to a mutually satisfactory cutover time and Sprint shall schedule an update of disconnect and switch translations at the agreed upon cutover time. Such updates will be available to CLEC



at Parity with Sprint's own availability for such activity. Sprint and CLEC shall each provide an appropriate operations contact with whom the Parties can contact in the event manual intervention is needed to complete the cutover. In the event of manual intervention, and if Sprint is unable to resolve the issue within sixty (60) minutes, Sprint shall notify CLEC of the issue and CLEC and Sprint shall determine the plan to resolve it.

- 70.2. Testing. Sprint and CLEC shall cooperate in conducting CLEC's testing to ensure interconnectivity between systems. Sprint shall inform CLEC of any system updates that may affect the CLEC network and Sprint shall, at CLEC's request, perform tests to validate the operation of the network. Additional testing requirements may apply as specified by this Agreement.
- 70.3. Installation Timeframes
  - 70.3.1. Installation Time Frames for RCF INP, where no other work is required, will be completed using Sprint's standard interval for service installation of complex services.
  - 70.3.2. If a subscriber elects to move its Telephone Exchange Service back to Sprint while on an INP arrangement, Sprint shall notify CLEC of the Subscriber's termination of service with CLEC and the Subscriber's instructions regarding its telephone number(s) at Parity with what is offered to other Sprint customers.
- 70.4. Call Referral Announcements. Should CLEC direct Sprint to terminate INP measures, Sprint shall allow CLEC to order a referral announcement available in that switch.
- 70.5. Engineering and Maintenance. Sprint and CLEC will cooperate to ensure that performance of trunking and signaling capacity is engineered and managed at levels which are at Parity with that provided by Sprint to its subscribers and to ensure effective maintenance testing through activities such as routine testing practices, network trouble isolation processes and review of operational elements for translations, routing and network fault isolation.
- 70.6. Operator Services and Directory Assistance
  - 70.6.1. With respect to operator services and directory assistance associated with INP for CLEC subscribers, Sprint shall provide the following:
    - 70.6.1.1. While INP is deployed:
      - 70.6.1.1.1. Sprint shall allow CLEC to order provisioning of Telephone Line Number (TLN) calling cards and Billed Number Screening (BNS), in its LIDB, for ported numbers, as specified by CLEC. Sprint shall continue to allow

CLEC access to its LIDB. Other LIDB provisions are specified in this Agreement.

70.6.1.1.2. Where Sprint has control of directory listings for NXX codes containing ported numbers, Sprint shall maintain entries for ported numbers as specified by CLEC.

70.6.2. Sprint OSS shall meet all requirements specified in "Generic Operator Services Switching Requirements for Number Portability," Issue 1.00, Final Draft, April 12, 1996. Editor - Nortel.

70 7. Number Reservation. When a subscriber ports to another service provider and has previously secured, via a tariffed offering, a reservation of line numbers from the donor provider for possible activation at some future point, these reserved but inactive numbers shall "port" along with the active numbers being ported by the subscriber in order to ensure that the end user subscriber will be permitted to expand its service using the same number range it could use if it remained with the donor provider. However, Sprint will not port unreserved, vacant numbers.

## **PART H - LOCAL NUMBER PORTABILITY**

### **71. INTRODUCTION**

- 71.1. Upon implementation of LNP, both Parties agree to conform and provide such LNP pursuant to FCC regulations and compliance with the Industry Forum. To the extent consistent with the FCC and Industry rules as amended from time to time, the requirements for LNP shall include the following:
  - 71.1.1. Subscribers must be able to change local service providers and retain the same telephone number(s) within the serving wire center utilizing the portability method in effect within the porting MSA, as offered by the porting carrier, and within the area of portability as defined by the FCC or state commission having jurisdiction over this Agreement.
  - 71.1.2. The LNP network architecture shall not subject Parties to any degradation of service in any relevant measure, including transmission quality, switching and transport costs, increased call set-up time and post-dial delay.
  - 71.1.3. Parties agree that when an NXX is defined as portable, it shall also be defined as portable in all LNP capable offices which have direct trunks to the given switch.
  - 71.1.4. When a subscriber ports to another service provider and has previously secured a reservation of line numbers from the donor provider for possible activation at some future point, these reserved but inactive numbers shall port along with the active numbers.
  - 71.1.5. NXX Availability. Not all NXXs in each CO may be available for porting.
  - 71.1.6. LERG Reassignment. Portability for an entire NXX shall be provided by utilizing reassignment of the NXX to CLEC through the LERG.
  - 71.1.7. Coordination of service order work outside normal business hours (8:00AM to 5:00PM location time) shall be at requesting Party's expense. Premium rates, specified in Sprint Local Telephone Companies Tariff F.C.C. No. 3, will apply for service order work performed outside normal business hours, weekends, and holidays.
  - 71.1.8. Mass Calling Events. Parties will notify each other at least seven (7) days in advance where ported numbers are utilized. Parties will only port mass calling numbers using switch translations and a choke network for call routing. Porting on mass calling numbers will be handled outside the normal porting process and comply with any applicable state or federal regulatory requirements developed for mass calling numbers.

### **72. TRANSITION FROM INP TO LNP**

- 72.1. Existing INP Arrangements. As Sprint provisions LNP according to the industry schedule in a Wire Center/Central Office, unless the Parties otherwise agree in writing, there will be a maximum of a ninety (90) day transition from INP to LNP. The Parties will work together to transition from INP to LNP with minimum disruption to end users, as agreed to by the implementation teams of both Parties. At that time, the CLEC will be required to fully implement LNP according to industry standards.
- 72.2. Once LNP is available in an area, all new portability will be LNP and INP will no longer be offered.

### **73. TESTING**

- 73.1. An Interconnection Agreement (or Memorandum of Understanding, or Porting Agreement) detailing conditions for LNP must be in effect between the Parties prior to testing.
- 73.2. Testing and operational issues will be addressed in the implementation plans as described in Part B, §32 of the agreement.
- 73.3. CLEC must be NPAC certified and have met Sprint testing parameters prior to activating LNP in the State of Tennessee. If LNP implementation by a CLEC/CMRS provider occurs past the FCC activation date, testing and porting will be done at CLEC's expense.
- 73.4. Parties will cooperate to ensure effective maintenance testing through activities such as routine testing practices, network trouble isolation processes and review of operational elements for translations, routing and network fault isolation.
- 73.5. Parties shall cooperate in testing performed to ensure interconnectivity between systems. All LNP providers shall notify each connected provider of any system updates that may affect the CLEC or Sprint network. Each LNP provider shall, at each other's request, jointly perform tests to validate the operation of the network. Additional testing requirements may apply as specified by this Agreement or in the Implementation Plan.

### **74. ENGINEERING AND MAINTENANCE**

- 74 1. Each LNP provider will monitor and perform effective maintenance through testing and the performance of proactive maintenance activities such as routine testing, development of and adherence to appropriate network trouble isolation processes and periodic review of operational elements for translations, routing and network faults.
- 74 2. It will be the responsibility of the Parties to ensure that the network is stable and maintenance and performance levels are maintained in accordance with state commission requirements. It will be the responsibility of the Parties to perform fault isolation in their network before involving other providers

- 74.3. Additional engineering and maintenance requirements shall apply as specified in this Agreement or the Implementation Plan.

**75. E911/911**

- 75.1. When a subscriber ports to another service provider, the donor provider shall use information provided by the porting provider to update the 911 tandem switch routing tables and 911/ALI database to correctly route, and provide accurate information to PSAP call centers.
- 75.2. Prior to implementation of LNP, the Parties agree to develop, implement, and maintain efficient methods to maintain 911 database integrity when a subscriber ports to another service provider. The Parties agree that the customer shall not be dropped from the 911 database during the transition.

**76. BILLING**

- 76.1. When an IXC terminates an InterLATA or IntraLATA toll call to either Party's local exchange customer whose telephone number has been ported from one Party to the other, the Parties agree that the Party to whom the number has been ported shall receive revenues from those IXC access charges, as appropriate.. The Party from whom the number has been ported shall be entitled only to receive any entrance facility fees, access tandem fees and appropriate local transport charges as set forth in this Agreement. Such access charge payments will be adjusted to the extent that the paying Party has already paid Reciprocal Compensation for the same minutes of use. When a call for which access charges are not applicable is terminated to a Party's local exchange customer whose telephone number has been ported from the other Party, the Parties agree that the Reciprocal compensation arrangements described in this Agreement shall apply.
- 76.2. Non-Payment. Customers lose the right to the ported telephone number upon non-payment of charges. A Party will not port telephone numbers of customers who have bills in default.

## **PART I - GENERAL BUSINESS REQUIREMENTS**

### **77. PROCEDURES**

#### **77.1. Contact with Subscribers**

77.1.1. Each Party at all times shall be the primary contact and account control for all interactions with its subscribers, except as specified by that Party. Subscribers include active subscribers as well as those for whom service orders are pending.

77.1.2. Each Party shall ensure that any of its personnel who may receive subscriber inquiries, or otherwise have opportunity for subscriber contact from the other Party's subscribers regarding the other Party's services: (i) provide appropriate referrals to subscribers who inquire about the other Party's services or products; (ii) do not in any way disparage or discriminate against the other Party, or its products or services; and (iii) do not provide information about its products or services during that same inquiry or subscriber contact.

77.1.3. Sprint shall not use CLEC's request for subscriber information, order submission, or any other aspect of CLEC's processes or services to aid Sprint's marketing or sales efforts.

#### **77.2. Expedite and Escalation Procedures**

77.2.1. Sprint and CLEC shall develop mutually acceptable escalation and expedite procedures which may be invoked at any point in the Service Ordering, Provisioning, Maintenance, and Subscriber Usage Data transfer processes to facilitate rapid and timely resolution of disputes. In addition, Sprint and CLEC will establish intercompany contacts lists for purposes of handling subscriber and other matters which require attention/resolution outside of normal business procedures within thirty (30) days after CLEC's request. Each Party shall notify the other Party of any changes to its escalation contact list as soon as practicable before such changes are effective.

77.2.2. No later than thirty (30) days after CLEC's request Sprint shall provide CLEC with contingency plans for those cases in which normal Service Ordering, Provisioning, Maintenance, Billing, and other procedures for Sprint's unbundled Network Elements, features, functions, and resale services are inoperable.

77.3. Subscriber of Record. Sprint shall recognize CLEC as the Subscriber of Record for all Network Elements or services for resale ordered by CLEC and shall send all notices, invoices, and information which pertain to such ordered services directly to CLEC. CLEC will provide Sprint with addresses to which Sprint shall send all such notices, invoices, and information.

#### 77.4. Service Offerings

77.4.1. Sprint shall provide CLEC with access to new services, features and functions concurrent with Sprint's notice to CLEC of such changes, if such service, feature or function is installed and available in the network or as soon thereafter as it is installed and available in the network, so that CLEC may conduct market testing.

77.4.2. Essential Services. For purposes of service restoral, Sprint shall designate a CLEC access line as an Essential Service Line (ESL) at Parity with Sprint's treatment of its own subscribers and applicable state law or regulation, if any.

77.4.3. Blocking Services. Upon request from CLEC, employing Sprint-approved LSR documentation, Sprint shall provide blocking of 700, 900, and 976 services, or other services of similar type as may now exist or be developed in the future, and shall provide Billed Number Screening (BNS), including required LIDB updates, or equivalent service for blocking completion of bill-to-third party and collect calls, on a line, PBX, or individual service basis. Blocking shall be provided to the extent (a) it is an available option for the Telecommunications Service resold by CLEC, or (b) it is technically feasible when requested by CLEC as a function of unbundled Network Elements.

77.4.4. Training Support. Sprint shall provide training, on a non-discriminatory basis, for all Sprint employees who may communicate, either by telephone or face-to-face, with CLEC subscribers. Such training shall include compliance with the branding requirements of this Agreement including without limitation provisions of forms, and unbranded "Not at Home" notices.

#### 78. ORDERING AND PROVISIONING

78.1. Ordering and Provisioning Parity. Sprint shall provide necessary ordering and provisioning business process support as well as those technical and systems interfaces as may be required to enable CLEC to provide the same level and quality of service for all resale services, functions, features, capabilities and unbundled Network Elements at Parity.

##### 78.2. National Exchange Access Center (NEAC)

78.2.1. Sprint shall provide a NEAC or equivalent which shall serve as CLEC's point of contact for all activities involved in the ordering and provisioning of Sprint's unbundled Network Elements, features, functions, and resale services.

78.2.2. The NEAC shall provide to CLEC a nationwide telephone number (available from 6:00 a.m. to 8:00 p.m. Eastern Standard Time, Monday

through Friday, and 8:00 am through 5:00 P.M. Eastern Standard Time on Saturday) answered by competent, knowledgeable personnel trained to answer questions and resolve problems in connection with the ordering and provisioning of unbundled Network Elements (except those associated with local interconnection trunking), features, functions, capabilities, and resale services.

78.2.3. Sprint shall provide, as requested by CLEC, through the NEAC, provisioning and premises visit installation support in the form of coordinated scheduling, status, and dispatch capabilities during Sprint's standard business hours and at other times as agreed upon by the Parties to meet subscriber demand.

78.3. Street Index Guide (SIG). Within thirty (30) days of CLEC's written request, Sprint shall provide to CLEC the SIG data, or its equivalent, in an electronic format mutually agreeable to the parties. All changes and updates to the SIG shall be provided to in a mutually agreed format and timeframe.

78.4. CLASS and Custom Features. Where generally available in Sprint's serving area, CLEC, at the tariff rate, may order the entire set of CLASS, CENTREX and Custom features and functions, or a subset of any one of such features.

78.5. Number Administration/Number Reservation

78.5.1. Sprint shall provide testing and loading of CLEC's NXX on the same basis as Sprint provides itself or its affiliates. Further, Sprint shall provide CLEC with access to abbreviated dialing codes, and the ability to obtain telephone numbers, including vanity numbers, while a subscriber is on the phone with CLEC. When CLEC uses numbers from a Sprint NXX, Sprint shall provide the same range of number choices to CLEC, including choice of exchange number, as Sprint provides its own subscribers. Reservation and aging of Sprint NXX's shall remain Sprint's responsibility.

78.5.2. In conjunction with an order for service, Sprint shall accept CLEC orders for vanity numbers and blocks of numbers for use with complex services including, but not limited to, DID, CENTREX, and Hunting arrangements, as requested by CLEC.

78.5.3. For simple services number reservations and aging of Sprint's numbers, Sprint shall provide real-time confirmation of the number reservation when the Electronic Interface has been implemented. For number reservations associated with complex services, Sprint shall provide confirmation of the number reservation within twenty-four (24) hours of CLEC's request. Consistent with the manner in which Sprint provides numbers to its own subscribers, no telephone number assignment is guaranteed until service has been installed.

78.6. Service Order Process Requirements



#### 78.6.1. Service Migrations and New Subscriber Additions

- 78.6.1.1. For resale services, other than for a competitive local exchange carrier order to convert "as is" a competitive local exchange carrier subscriber, Sprint shall not disconnect any subscriber service or existing features at any time during the migration of that subscriber to a competitive local exchange carrier service without prior competitive local exchange carrier agreement.
- 78.6.1.2. For services provided through UNEs, Sprint shall recognize CLEC as an agent, in accordance with OBF developed processes, for the subscriber in coordinating the disconnection of services provided by another CLEC or Sprint. In addition, Sprint and CLEC will work cooperatively to minimize service interruptions during the conversion.
- 78.6.1.3. Unless otherwise directed by CLEC and when technically feasible, when CLEC orders resale Telecommunications Services or UNEs all trunk or telephone numbers currently associated with existing services shall be retained without loss of feature capability and without loss of associated ancillary services including, but not limited to, Directory Assistance and 911/E911 capability.
- 78.6.1.4. For subscriber conversions requiring coordinated cut-over activities, on a per order basis, Sprint and CLEC will agree on a scheduled conversion time, to the extent resources are readily available, which will be a designated time period within a designated date.
  - 78.6.1.4.1. Any request made by CLEC to coordinate conversions after normal working hours, or on Saturdays or Sundays or Sprint holidays shall be performed at CLEC's expense.
- 78.6.1.5. A general Letter of Agency (LOA) initiated by CLEC or Sprint will be required to process a PLC or PIC change order. Providing the LOA, or a copy of the LOA, signed by the end user will not be required to process a PLC or PIC change ordered by CLEC or Sprint. CLEC and Sprint agree that PLC and PIC change orders will be supported with appropriate documentation and verification as required by FCC and Commission rules. In the event of a subscriber complaint of an unauthorized PLC record change where the Party that ordered such change is unable to produce appropriate documentation and verification as required by FCC and Commission rules (or, if there are no rules applicable to PLC record changes, then such rules as are applicable to changes in long distance carriers of record), such Party shall be liable to pay and

shall pay all nonrecurring and/or other charges associated with reestablishing the subscriber's local service with the original local carrier.

78.6.2. Intercept Treatment and Transfer Service Announcements. Sprint shall provide unbranded intercept treatment and transfer of service announcements to CLEC's subscribers. Sprint shall provide such treatment and transfer of service announcement in accordance with local tariffs and as provided to similarly situated Sprint subscribers for all service disconnects, suspensions, or transfers.

78.6.3. Due Date

78.6.3.1. Sprint shall supply CLEC with due date intervals to be used by CLEC personnel to determine service installation dates.

78.6.3.2. Sprint shall use best efforts to complete orders by the CLEC requested customer desired due date within agreed upon intervals.

78.6.4. Subscriber Premises Inspections and Installations

78.6.4.1. CLEC shall perform or contract for all CLEC's needs assessments, including equipment and installation requirements required beyond the Demarcation/NID, located at the subscriber premises.

78.6.4.2. Sprint shall provide CLEC with the ability to schedule subscriber premises installations at the same morning and evening commitment level of service offered Sprint's own customers. The parties shall mutually agree on an interim process to provide this functionality during the implementation planning process.

78.6.5. Firm Order Confirmation (FOC)

78.6.5.1. Sprint shall provide to CLEC, a Firm Order Confirmation (FOC) for each CLEC order. The FOC shall contain the appropriate data elements as defined by the OBF standards.

78.6.5.2. For a revised FOC, Sprint shall provide standard detail as defined by the OBF standards.

78.6.5.3. Sprint shall provide to CLEC the date that service is scheduled to be installed.

78.6.6. Order Rejections

78.6.6.1. Sprint shall reject and return to CLEC any order that Sprint cannot provision, due to technical reasons, missing information, or jeopardy conditions resulting from CLEC ordering service at less than the standard order interval. When an order is rejected, Sprint

shall, in its reject notification, specifically describe all of the reasons for which the order was rejected. Sprint shall reject any orders on which the customer Desired Due Date conflicts with published Sprint order provisioning interval requirements, and at parity with intervals which Sprint provides to itself, its own subscribers, to an affiliate or to any other entity.

#### 78.6.7. Service Order Changes

78.6.7.1. In no event will Sprint change a CLEC initiated service order without a new service order directing said change. If an installation or other CLEC ordered work requires a change from the original CLEC service order in any manner, CLEC shall initiate a revised service order. If requested by CLEC, Sprint shall provide CLEC an estimate of additional labor hours and/or materials if the change order requires additional labor and/or materials.

78.6.7.1.1. When a service order change that required additional labor and/or materials is completed, the final cost of the additional work performed will be reported promptly to CLEC.

78.6.7.2. If a CLEC subscriber requests a service change at the time of installation or other work being performed by Sprint on behalf of CLEC, Sprint, while at the subscriber premises, shall direct the CLEC subscriber to contact CLEC, and CLEC will initiate a new service order.

78.7. Network Testing. Sprint shall perform all its standard pre-service testing prior to the completion of the service order.

78.8. Service Suspensions/Restorations. Upon CLEC's request through an Industry Standard, OBF, Suspend/Restore Order, or mutually agreed upon interim procedure, Sprint shall suspend or restore the functionality of any Network Element, feature, function, or resale service to which suspend/restore is applicable. Sprint shall provide restoration priority on a per network element basis in a manner that conforms with any applicable regulatory Rules and Regulations or government requirements.

78.9. Order Completion Notification. Upon completion of the requests submitted by CLEC, Sprint shall provide to CLEC a completion notification in an industry standard, OBF, or in a mutually agreed format. The completion notification shall include detail of the work performed, to the extent this is defined within OBF guidelines, and in an interim method until such standards are defined.

78.10. Specific Unbundling Requirements. CLEC may order and Sprint shall provision unbundled Network Elements. However, except as otherwise provided in this Agreement, it is CLEC's responsibility to combine the individual network

elements should it desire to do so.

## 78.11 Systems Interfaces and Information Exchanges

### 78.11.1. General Requirements

78.11.1.1. Sprint shall provide to CLEC Electronic Interface(s) for transferring and receiving information and executing transactions for all business functions directly or indirectly related to Service Ordering and Provisioning of Network Elements, features, functions and Telecommunications Services. The Interface(s) shall be developed/designed for the transmission of data from CLEC to Sprint, and from Sprint to CLEC.

78.11.1.2. Interim interfaces or processes may be modified, if so agreed by CLEC and Sprint, during the interim period.

78.11.1.3. Until the Electronic Interface is available, Sprint agrees that the NEAC or similar function will accept CLEC orders. Orders will be transmitted to the NEAC via an interface or method agreed upon by CLEC and Sprint.

78.11.2. For any CLEC subscriber Sprint shall provide, subject to applicable rules, orders, and decisions, CLEC with access to CPNI without requiring CLEC to produce a signed LOA, based on CLEC's blanket representation that its subscriber has authorized CLEC to obtain such CPNI.

78.11.2.1. The preordering Electronic Interface includes the provisioning of CPNI from Sprint to CLEC. The Parties agree to execute a LOA agreement with the Sprint end user prior to requesting CPNI for that Sprint end user, and to request end user CPNI only when the end user has specifically given permission to receive CPNI. The Parties agree that they will conform to FCC and/or state regulations regarding the provisioning of CPNI between the Parties, and regarding the use of that information by the requesting Party.

78.11.2.2. The requesting Party will document end user permission obtained to receive CPNI, whether or not the end user has agreed to change local service providers. For end users changing service from one Party to the other, specific end user LOAs may be requested by the Party receiving CPNI requests to investigate possible slamming incidents, and for other reasons agreed to by the Parties

78.11.2.3 The receiving Party may also request documentation of an LOA if CPNI is requested and a subsequent service order for the change of local service is not received. The receiving Party may perform

a comparison of requests for CPNI to service orders received for the change of Local Service to the other Party. The receiving Party will produce a report of unmatched requests for CPNI, and may require an LOA for each unmatched request. The requesting Party agrees to provide evidence of end user permission for receipt of CPNI for all end users in the request within three (3) business days of receipt of a request. Should the receiving Party determine that there has been a substantial percentage of unmatched LOA requests, it reserves the right to disconnect the preordering Electronic Interface after providing reasonable prior notice.

- 78.11.2.4. If the requesting Party is not able to provide the LOA for ninety-five percent (95%) of the end users requested, or if the receiving Party determines that an LOA is inadequate, the requesting Party will be considered in breach of the agreement. The requesting Party can cure the breach by submitting to the receiving Party evidence of an LOA for each inadequate or omitted LOA within three (3) business days of notification of the breach.
- 78.11.2.5. Should the requesting Party not be able to cure the breach in the timeframe noted above, the receiving Party will discontinue processing new service orders until, in the receiving Party's determination, the requesting Party has corrected the problem that caused the breach.
- 78.11.2.6. The receiving Party will resume processing new service orders upon the receiving Party's timely review and acceptance of evidence provided by the requesting Party to correct the problem that caused the breach.
- 78.11.2.7. If the requesting Party and the receiving Party do not agree that the requesting Party requested CPNI for a specific end user, or that the receiving Party has erred in not accepting proof of an LOA, the Parties may immediately request dispute resolution in accordance with Part B. The receiving Party will not disconnect the preordering Electronic Interface during the Alternate Dispute Resolution process.
- 78.11.2.8. When available per Electronic Interface Implementation Plan, Sprint shall provide to CLEC Electronic Interface to Sprint information systems to allow CLEC to assign telephone number(s) (if the subscriber does not already have a telephone number or requests a change of telephone number) at Parity.
- 78.11.2.9. When available per Electronic Interface Implementation Plan, Sprint shall provide to CLEC an Electronic Interface to schedule dispatch and installation appointments at Parity

78.11.2.10. When available per Electronic Interface Implementation Plan, Sprint shall provide to CLEC an Electronic Interface to Sprint subscriber information systems which will allow CLEC to determine at Parity if a service call is needed to install the line or service .

78.11.2.11. When available per Electronic Interface Implementation Plan, Sprint shall provide to CLEC an Electronic Interface to Sprint information systems which will allow CLEC to provide service availability dates at Parity.

78.11.2.12. When available per Electronic Interface Implementation Plan, Sprint shall provide to CLEC an Electronic Interface which transmits status information on service orders at Parity. Until an Electronic Interface is available, Sprint agrees that Sprint will provide proactive status on service orders at the following critical intervals: acknowledgment, firm order confirmation, and completion according to interim procedures to be mutually developed. Sprint will also provide status on service orders at other times in response to CLEC's request.

#### 78.12. Standards

78.12.1. General Requirements. CLEC and Sprint shall agree upon the appropriate ordering and provisioning codes to be used for UNEs. These codes shall apply to all aspects of the unbundling of that element and shall be known as data elements as defined by the Telecommunications Industry Forum Electronic Data Interchange Service Order Subcommittee (TCIF-EDI-SOSC)

### 79. BILLING

79.1. Sprint shall comply with various industry, OBF, and other standards referred to throughout this Agreement. Sprint will review any changes to industry standards, and implement the changes within the industry-defined window. Sprint will notify CLEC of any deviations to the standards.

79.2. Sprint shall provide to CLEC a single point of contact for interconnection at the National Access Service Center (NASC), and Network Elements and resale at Sprint's NEAC, to handle any Connectivity Billing questions or problems that may arise during the implementation and performance of the terms and conditions of this Agreement.

79.3. Sprint shall provide a single point of contact for handling of any data exchange questions or problems that may arise during the implementation and performance of the terms and conditions of this Agreement.

- 79.4. Sprint shall credit CLEC for incorrect Connectivity Billing charges including without limitation: overcharges, services ordered or requested but not delivered, interrupted services, services of poor quality and installation problems if caused by Sprint. Such reimbursements shall be set forth in the appropriate section of the Connectivity Bill pursuant to CABS, or SECAB standards.
- 79.5. Where Parties have established interconnection, Sprint and the CLEC agree to conform to MECAB and MECOD guidelines. They will exchange Billing Account Reference and Bill Account Cross Reference information and will coordinate Initial Billing Company/Subsequent Billing Company billing cycles. Sprint and CLEC will exchange the appropriate records to bill exchange access charges to the IXC. Sprint and CLEC agree to capture EMI records for inward terminating and outward originating calls and send them to the other, as appropriate, in daily or other agreed upon interval, via and agreed upon media (e.g.: Connect Direct, cartridge or magnetic tape).
- 79.6. Revenue Protection. Sprint shall make available to CLEC, at Parity with what Sprint provides to itself, its Affiliates and other local telecommunications CLECs, all present and future fraud prevention or revenue protection features, including prevention, detection, or control functionality embedded within any of the Network Elements. These features include, but are not limited to screening codes, information digits assigned such as information digits '29' and '70' which indicate prison and COCOT pay phone originating line types respectively, call blocking of domestic, international, 800, 888, 900, NPA-976, 700, 500 and specific line numbers, and the capability to require end-user entry of an authorization code for dial tone. Sprint shall, when technically capable and consistent with the implementation schedule for Operations Support Systems (OSS), additionally provide partitioned access to fraud prevention, detection and control functionality within pertinent OSS.

## **80. PROVISION OF SUBSCRIBER USAGE DATA**

- 80.1. This Section 80 sets forth the terms and conditions for Sprint's provision of Recorded Usage Data (as defined in this Part) to CLEC and for information exchange regarding long distance billing. The Parties agree to record call information for interconnection in accordance with this Section 4. To the extent technically feasible, each Party shall record all call detail information associated with completed calls originated by or terminated to the other Party's local exchange subscriber. Sprint shall record for CLEC the messages that Sprint records for and bills to its end users. These records shall be provided at a Party's request and shall be formatted pursuant to Telcordia's EMI standards and the terms and conditions of this Agreement. These records shall be transmitted to the other Party on non-holiday business days in EMI format via CDN, or provided on a cartridge or magnetic tape. Sprint and CLEC agree that they shall retain, at each Party's sole expense, copies of all EMI records transmitted to the other Party for

at least forty-five (45) calendar days after transmission to the other Party.

80.2. General Procedures

80.2.1. Sprint shall comply with various industry and OBF standards referred to throughout this Agreement.

80.2.2. Sprint shall comply with OBF standards when recording and transmitting Usage Data.

80.2.3. Sprint shall record all usage originating from CLEC subscribers using resold services ordered by CLEC, where Sprint records those same services for Sprint subscribers. Recorded Usage Data includes, but is not limited to, the following categories of information:

80.2.3.1. Use of CLASS/LASS/Custom Features that Sprint records and bills for its subscribers on a per usage basis.

80.2.3.2. Calls to Information Providers (IP) reached via Sprint facilities will be provided in accordance with §80.2.7

80.2.3.3. Calls to Directory Assistance where Sprint provides such service to a CLEC subscriber.

80.2.3.4. Calls completed via Sprint-provided Operator Services where Sprint provides such service to CLEC's local service subscriber and where Sprint records such usage for its subscribers using Industry Standard Telcordia EMI billing records.

80.2.3.5. For Sprint-provided Centrex Service, station level detail.

80.2.4. Retention of Records. Each Party shall maintain a machine readable back-up copy of the message detail provided to the other Party for a minimum of forty-five (45) calendar days. During the forty-five (45) day period, a Party shall provide any data back-up to the other upon request. If the forty-five (45) day has expired, a Party may provide the data back-up at the requesting Party's expense.

80.2.5. Sprint shall provide to CLEC Recorded Usage Data for CLEC subscribers. Sprint shall not submit other CLEC local usage data as part of the CLEC Recorded Usage Data.

80.2.6. Sprint shall not bill directly to CLEC subscribers any recurring or non-recurring charges for CLEC's services to the subscriber except where explicitly permitted to do so within a written agreement between Sprint and CLEC

80.2.7. Sprint will record 976/N11 calls and transmit them to the IP for billing. Sprint will not bill these calls to either the CLEC or the CLEC's end user.



80.2.8. Sprint shall provide Recorded Usage Data to CLEC billing locations as agreed to by the Parties.

80.2.9. Sprint shall provide a single point of contact to respond to CLEC call usage, data error, and record transmission inquiries.

80.2.10. Sprint shall provide CLEC with a single point of contact and remote identifiers (IDs) for each sending location.

80.2.11. CLEC shall provide a single point of contact responsible for receiving usage transmitted by Sprint and receiving usage tapes from a courier service in the event of a facility outage.

80.2.12. Sprint shall bill and CLEC shall pay the charges for Recorded Usage Data. Billing and payment shall be in accordance with the applicable terms and conditions set forth herein.

### 80.3. Charges

80.3.1. Access services, including revenues associated therewith, provided in connection with the resale of services hereunder shall be the responsibility of Sprint and Sprint shall directly bill and receive payment on its own behalf from an IXC for access related to interexchange calls generated by resold or rebranded customers.

80.3.2. Sprint will be responsible for returning EMI records to IXCs with the proper EMI Return Code along with the Operating Company Number (OCN) of the associated ANI, (i.e., Billing Number).

80.3.3. Sprint will deliver a monthly statement for wholesale services in the medium (e.g.: NDM, paper, diskette, cartridge, magnetic tape, or CD-ROM) requested by CLEC as follows:

80.3.3.1. Invoices will be provided in a standard Carrier Access Billing format or other such format as Sprint may determine;

80.3.3.2. Where local usage charges apply and message detail is created to support available services, the originating local usage at the call detail level in standard EMI industry format will be exchanged daily or at other mutually agreed upon intervals, and CLEC will pay Sprint for providing such call detail at the rate specified in Table One;

80.3.3.3. The Parties will work cooperatively to exchange information to facilitate the billing of in and out collect and inter/intra-region alternately billed messages;

80.3.3.4. Sprint agrees to provide information on the end-user's selection of special features where Sprint maintains such information (e.g.: billing method, special language) when CLEC places the order for

service;

80.3.3.5. Monthly recurring charges for Telecommunications Services sold pursuant to this Agreement shall be billed monthly in advance.

80.3.3.6. Sprint shall bill for message provisioning and, if applicable data tape charges, related to the provision of usage records.

80.3.3.7. Each Party shall also bill the other for additional copies of the monthly invoice at the rate specified in Table One.

80.3.4. For billing purposes, and except as otherwise specifically agreed to in writing, the Telecommunications Services provided hereunder are furnished for a minimum term of one month. Each month is presumed to have thirty (30) days.

#### 80.4. Central Clearinghouse & Settlement

80.4.1. Sprint and CLEC shall agree upon Clearinghouse and Incollect/Outcollect procedures.

80.4.2. Sprint shall settle with CLEC for both intra-region and inter-region billing exchanges of calling card, bill-to-third party, and collect calls under separately negotiated settlement arrangements.

#### 80.5. Lost Data

80.5.1. Loss of Recorded Usage Data. CLEC Recorded Usage Data determined to have been lost, damaged or destroyed as a result of an error or omission by Sprint in its performance of the recording function shall be recovered by Sprint at no charge to CLEC. In the event the data cannot be recovered by Sprint, Sprint shall estimate the messages and associated revenue, with assistance from CLEC, based upon the method described below. This method shall be applied on a consistent basis, subject to modifications agreed to by Sprint and CLEC. This estimate shall be used to adjust amounts CLEC owes Sprint for services Sprint provides in conjunction with the provision of Recorded Usage Data.

80.5.2. Partial Loss. Sprint shall review its daily controls to determine if data has been lost. When there has been a partial loss, actual message and minute volumes shall be reported, if possible through recovery as discussed in 79.5.1 above. Where actual data are not available, a full day shall be estimated for the recording entity, as outlined in the following paragraphs. The amount of the partial loss is then determined by subtracting the data actually recorded for such day from the estimated total for such day.

80.5.3. Complete Loss. When Sprint is unable to recover data as discussed in 79.5.1 above estimated message and minute volumes for each loss consisting of an entire AMA tape or entire data volume due to its loss

prior to or during processing, lost after receipt, degaussed before processing, receipt of a blank or unreadable tape, or lost for other causes, shall be reported.

80.5.4. Estimated Volumes. From message and minute volume reports for the entity experiencing the loss, Sprint shall secure message/minute counts for the four (4) corresponding days of the weeks preceding that in which the loss occurred and compute an average of these volumes. Sprint shall apply the appropriate average revenue per message ("arpm") agreed to by CLEC and Sprint to the estimated message volume for messages for which usage charges apply to the subscriber to arrive at the estimated lost revenue.

80.5.5. If the day of loss is not a holiday but one (1) (or more) of the preceding corresponding days is a holiday, use additional preceding weeks in order to procure volumes for two (2) non-holidays in the previous two (2) weeks that correspond to the day of the week that is the day of the loss

80.5.6. If the loss occurs on a weekday that is a holiday (except Christmas and Mother's day), Sprint shall use volumes from the two (2) preceding Sundays.

80.5.7. If the loss occurs on Mother's day or Christmas day, Sprint shall use volumes from that day in the preceding year multiplied by a growth factor derived from an average of CLEC's most recent three (3) month message volume growth. If a previous year's message volumes are not available, a settlement shall be negotiated.

#### 80.6. Testing, Changes and Controls

80.6.1. The Recorded Usage Data, EMI format, content, and transmission process shall be tested as agreed upon by CLEC and Sprint.

80.6.2. Control procedures for all usage transferred between Sprint and CLEC shall be available for periodic review. This review may be included as part of an Audit of Sprint by CLEC or as part of the normal production interface management function. Breakdowns which impact the flow of usage between Sprint and CLEC must be identified and jointly resolved as they occur. The resolution may include changes to control procedures, so similar problems would be avoided in the future. Any changes to control procedures would need to be mutually agreed upon by CLEC and Sprint.

#### 80.6.3. Sprint Software Changes

80.6.3.1 When Sprint plans to introduce any software changes which impact the format or content structure of the usage data feed to CLEC, designated Sprint personnel shall notify CLEC no less than ninety (90) calendar days before such changes are implemented.

80.6.3.2. Sprint shall communicate the projected changes to CLEC's

single point of contact so that potential impacts on CLEC processing can be determined.

80.6.3.3. CLEC personnel shall review the impact of the change on the entire control structure. CLEC shall negotiate any perceived problems with Sprint and shall arrange to have the data tested utilizing the modified software if required.

80.6.3.4. If it is necessary for Sprint to request changes in the schedule, content or format of usage data transmitted to CLEC, Sprint shall notify CLEC.

80.6.4. CLEC Requested Changes:

80.6.4.1. CLEC may submit a purchase order to negotiate and pay for changes in the content and format of the usage data transmitted by Sprint, provided that CLEC will not be charged for changes required to conform to industry standard formats.

80.6.4.2. When the negotiated changes are to be implemented, CLEC and/or Sprint shall arrange for testing of the modified data.

80.7. Information Exchange and Interfaces

80.7.1. Product/Service Specific. Sprint shall provide a Telcordia standard 42-50-01 miscellaneous charge record to support the Special Features Star Services if these features are part of Sprint's offering and are provided for Sprint's subscribers on a per usage basis.

80.7.2. Rejected Recorded Usage Data

80.7.2.1. Upon agreement between CLEC and Sprint, messages that cannot be rated and/or billed by CLEC may be returned to Sprint via CDN or other medium as agreed by the Parties. Returned messages shall be sent directly to Sprint in their original EMI format utilizing standard EMI return codes.

80.7.2.2. Sprint may correct and resubmit to CLEC any messages returned to Sprint. Sprint will not be liable for any records determined by Sprint to be billable to a CLEC end user. Unless further errors are discovered, CLEC will not return a message that has been corrected and resubmitted by Sprint. Sprint will only assume liability for errors and unguideables caused by Sprint.

81. GENERAL NETWORK REQUIREMENTS

81.1. Sprint shall provide repair, maintenance and testing for all resold Telecommunications Services and such UNEs that Sprint is able to test, in accordance with the terms and conditions of this Agreement.

- 81.2. During the term of this Agreement, Sprint shall provide necessary maintenance business process support as well as those technical and systems interfaces at Parity. Sprint shall provide CLEC with maintenance support at Parity.
- 81.3. Sprint shall provide on a regional basis, a point of contact for CLEC to report vital telephone maintenance issues and trouble reports twenty four (24) hours and seven (7) days a week.
- 81.4. Sprint shall provide CLEC maintenance dispatch personnel on the same schedule that it provides its own subscribers.
- 81.5. Sprint shall cooperate with CLEC to meet maintenance standards for all Telecommunications Services and unbundled network elements ordered under this Agreement. Such maintenance standards shall include, without limitation, standards for testing, network management, call gapping, and notification of upgrades as they become available.
- 81.6. All Sprint employees or contractors who perform repair service for CLEC subscribers shall follow Sprint standard procedures in all their communications with CLEC subscribers. These procedures and protocols shall ensure that:
  - 81.6.1. Sprint employees or contractors shall perform repair service that is equal in quality to that provided to Sprint subscribers; and
  - 81.6.2. Trouble calls from CLEC shall receive response time priority that is equal to that of Sprint subscribers and shall be handled on a "first come first served" basis regardless of whether the subscriber is a CLEC subscriber or a Sprint subscriber.
- 81.7. Sprint shall provide CLEC with scheduled maintenance for resold lines, including, without limitation, required and recommended maintenance intervals and procedures, for all Telecommunications Services and network elements provided to CLEC under this Agreement equal in quality to that currently provided by Sprint in the maintenance of its own network. CLEC shall perform its own testing for UNEs
- 81.8. Sprint shall give maximum advanced notice to CLEC of all non-scheduled maintenance or other planned network activities to be performed by Sprint on any network element, including any hardware, equipment, software, or system, providing service functionality which may potentially impact CLEC subscribers.
- 81.9. Notice of Network Event. Each Party has the duty to alert the other of any network events that can result or have resulted in service interruption, blocked calls, or negative changes in network performance.
- 81.10. On all misdirected calls from CLEC subscribers requesting repair, Sprint shall provide such CLEC subscriber with the correct CLEC repair telephone number as such number is provided to Sprint by CLEC. Once the Electronic Interface is established between Sprint and CLEC, Sprint agrees that CLEC may report

troubles directly to a single Sprint repair/maintenance center for both residential and business subscribers, unless otherwise agreed to by CLEC.

- 81.11. Upon establishment of an Electronic Interface, Sprint shall notify CLEC via such electronic interface upon completion of trouble report. Prior to establishment of an Electronic Interface, Sprint shall notify CLEC via phone upon completion of a trouble report. The report shall not be considered closed until such notification is made. CLEC will contact its subscriber to determine if repairs were completed and confirm the trouble no longer exists.
- 81.12. Sprint shall perform all testing for resold Telecommunications Services.
- 81.13. Sprint shall provide test results to CLEC, if appropriate, for trouble clearance. In all instances, Sprint shall provide CLEC with the disposition of the trouble.
- 81.14. If Sprint initiates trouble handling procedures, it will bear all costs associated with that activity. If CLEC requests the trouble dispatch, and either there is no trouble found, or the trouble is determined to be beyond the end user demarcation point, then CLEC will bear the cost.

## **82. MISCELLANEOUS SERVICES AND FUNCTIONS**

### **82.1. General**

82.1.1. To the extent that Sprint does not provide the services described in this Section 12 to itself, Sprint will use reasonable efforts to facilitate the acquisition of such services for or by CLEC through the existing service provider. CLEC must contract directly with the service provider for such services.

### **82.1.2. Basic 911 and E911 General Requirements**

82.1.2.1. Basic 911 and E911 provides a caller access to the appropriate emergency service bureau by dialing a 3-digit universal telephone number (911). Basic 911 and E911 access from Local Switching shall be provided to CLEC in accordance with the following:

82.1.2.2. E911 shall provide additional routing flexibility for 911 calls. E911 shall use subscriber data, contained in the ALI/DMS, to determine to which PSAP to route the call.

82.1.2.3. Basic 911 and E911 functions provided to CLEC shall be at Parity with the support and services that Sprint provides to its subscribers for such similar functionality.

82.1.2.4. Basic 911 and E911 access when CLEC purchases Local Switching shall be provided to CLEC in accordance with the following:

- 82.1.2.4.1. Sprint shall conform to all state regulations concerning emergency services.
- 82.1.2.4.2. For E911, Sprint shall use its service order process to update and maintain subscriber information in the ALI/DMS. Through this process, Sprint shall provide and validate CLEC subscriber information resident or entered into the ALI/DMS.
- 82.1.2.4.3. Sprint shall provide for overflow 911 traffic to be routed to Sprint Operator Services or, at CLEC's discretion, directly to CLEC operator services.
- 82.1.3. Basic 911 and E911 access from the CLEC local switch shall be provided to CLEC in accordance with the following:
  - 82.1.3.1. If required by CLEC, Sprint, at CLEC's sole expense, shall interconnect direct trunks from the CLEC network to the E911 PSAP, or the E911 Tandems as designated by CLEC. Such trunks may alternatively be provided by CLEC.
  - 82.1.3.2. In government jurisdictions where Sprint has obligations under existing agreements as the primary provider of the 911 System to the county (Host SPRINT), CLEC shall participate in the provision of the 911 System as follows:
    - 82.1.3.2.1. Each Party shall be responsible for those portions of the 911 System for which it has control, including any necessary maintenance to each Party's portion of the 911 System.
    - 82.1.3.2.2. Host SPRINT shall be responsible for maintaining the E-911 database. Sprint shall be responsible for maintaining the E-911 routing database.
- 82.1.4. If a third party is the primary service provider to a government agency, CLEC shall negotiate separately with such third party with regard to the provision of 911 service to the agency. All relations between such third party and CLEC are totally separate from this Agreement and Sprint makes no representations on behalf of the third party.
- 82.1.5. If CLEC or its Affiliate is the primary service provider to a government agency, CLEC and Sprint shall negotiate the specific provisions necessary for providing 911 service to the agency and shall include such provisions in an amendment to this Agreement.
- 82.1.6. Interconnection and database access shall be priced as specified in Part C.

- 82.1.7. Sprint shall comply with established, competitively neutral intervals for installation of facilities, including any collocation facilities, diversity requirements, etc.
- 82.1.8. In a resale situation, where it may be appropriate for Sprint to update the ALI database, Sprint shall update such database with CLEC data in an interval at Parity with that experienced by Sprint subscribers.
- 82.1.9. Sprint shall transmit to CLEC daily all changes, alterations, modifications, and updates to the emergency public agency telephone numbers linked to all NPA NXX's. This transmission shall be electronic and be a separate feed from the subscriber listing feed.
- 82.1.10. Sprint shall provide to CLEC the necessary UNEs for CLEC to provide E911/911 services to government agencies. If such elements are not available from Sprint, Sprint shall offer E911/911 service for resale by CLEC to government agencies.
- 82.1.11. The following are Basic 911 and E911 Database Requirements
- 82.1.11.1. The ALI database shall be managed by Sprint, but is the property of Sprint and CLEC for those records provided by CLEC.
- 82.1.11.2. To the extent allowed by the governmental agency, and where available, copies of the SIG shall be provided within three business days from the time requested and provided on diskette, magnetic tape, or in a format suitable for use with desktop computers.
- 82.1.11.3. CLEC shall be solely responsible for providing CLEC database records to Sprint for inclusion in Sprint's ALI database on a timely basis.
- 82.1.11.4. Sprint and CLEC shall arrange for the automated input and periodic updating of the E911 database information related to CLEC end users. Sprint shall work cooperatively with CLEC to ensure the accuracy of the data transfer by verifying it against the SIG. Sprint shall accept electronically transmitted files or magnetic tape that conform to NENA Version #2 format.
- 82.1.11.5. CLEC shall assign an E911 database coordinator charged with the responsibility of forwarding CLEC end user ALI record information to Sprint or via a third-party entity, charged with the responsibility of ALI record transfer. CLEC assumes all responsibility for the accuracy of the data that CLEC provides to Sprint.
- 82.1.11.6. CLEC shall provide information on new subscribers to Sprint within one (1) business day of the order completion. Sprint shall update the database within two (2) business days of receiving the



data from CLEC. If Sprint detects an error in the CLEC provided data, the data shall be returned to CLEC within two (2) business days from when it was provided to Sprint. CLEC shall respond to requests from Sprint to make corrections to database record errors by uploading corrected records within two (2) business days. Manual entry shall be allowed only in the event that the system is not functioning properly.

82.1.11.7. Sprint agrees to treat all data on CLEC subscribers provided under this Agreement as confidential and to use data on CLEC subscribers only for the purpose of providing E911 services.

82.1.11.8. Sprint shall adopt use of a CLEC Code (NENA standard five-character field) on all ALI records received from CLEC. The CLEC Code will be used to identify the CLEC of record in LNP/INP configurations.

82.1.11.9. Sprint shall identify which ALI databases cover which states, counties or parts thereof, and identify and communicate a Point of Contact for each.

82.1.12. The following are basic 911 and E911 Network Requirements

82.1.12.1. Sprint, at CLEC's option, shall provide a minimum of two (2) E911 trunks per 911 switching entity, or that quantity which will maintain P.01 transmission grade of service, whichever is the higher grade of service. Where applicable these trunks will be dedicated to routing 911 calls from CLEC's switch to a Sprint selective router.

82.1.12.2. Sprint shall provide the selective routing of E911 calls received from CLEC's switching office. This includes the ability to receive the ANI of CLEC's subscriber, selectively route the call to the appropriate PSAP, and forward the subscriber's ANI to the PSAP. Sprint shall provide CLEC with the appropriate CLLI codes and specifications regarding the Tandem serving area associated addresses and meet-points in the network.

82.1.12.3. CLEC shall ensure that its switch provides an eight-digit ANI consisting of an information digit and the seven-digit exchange code. CLEC shall also ensure that its switch provides the line number of the calling station. Where applicable, CLEC shall send a ten-digit ANI to Sprint. When there is an ANI failure the CLEC shall send the Central Office Trunk Group number in the Emergency Service Central Office (ESCO) format.

82.1.12.4. Each ALI discrepancy report shall be jointly researched by Sprint and CLEC. Corrective action shall be taken immediately by

the responsible Party.

82.1.12.5. Where Sprint controls the 911 network, Sprint provides CLEC with a detailed written description of, but not limited to, the following information:

82.1.12.5.1. Geographic boundaries of the government entities, PSAPs, and exchanges as necessary.

82.1.12.5.2. LECs rate centers/exchanges, where "Rate Center" is defined as a geographically specified area used for determining mileage dependent rates in the Public Switched Telephone Network.

82.1.12.5.3. Technical specifications for network interface, Technical specifications for database loading and maintenance.

82.1.12.5.4. Sprint shall identify special routing arrangements to complete overflow.

82.1.12.5.5. Sprint shall begin restoration of E911 and/or E911 trunking facilities immediately upon notification of failure or outage. Sprint must provide priority restoration of trunks or networks outages on the same terms/conditions it provides itself and without the imposition of Telecommunications Service Priority (TSP).

82.1.12.5.6. Repair service shall begin immediately upon receipt of a report of a malfunction. Repair service includes testing and diagnostic service from a remote location, dispatch of or in-person visit(s) of personnel. Technicians will be dispatched without delay.

82.1.12.6. Sprint shall identify any special operator-assisted calling requirements to support 911.

82.1.12.7. Trunking shall be arranged to minimize the likelihood of central office isolation due to cable cuts or other equipment failures. There will be an alternate means of transmitting a 911 call to a PSAP in the event of failures.

82.1.12.8. Circuits shall have interoffice, loop and CLEC system diversity when such diversity can be achieved using existing facilities. Circuits will be divided as equally as possible across available CLEC systems. Diversity will be maintained or upgraded to utilize

the highest level of diversity available in the network.

82.1.12.9. All 911 trunks must be capable of transmitting and receiving Baudot code or ASCII necessary to support the use of Telecommunications Devices for the Deaf (TTY/TDDs).

82.1.13. Basic 911 and E911 Additional Requirements

82.1.13.1. All CLEC lines that have been ported via INP shall reach the correct PSAP when 911 is dialed. Sprint shall send both the ported number and the CLEC number (if both are received from CLEC). The PSAP attendant shall see both numbers where the PSAP is using a standard ALI display screen and the PSAP extracts both numbers from the data that is sent.

82.1.13.2. Sprint shall work with the appropriate government agency to provide CLEC the ten-digit POTS number of each PSAP which sub-tends each Sprint selective router/911 Tandem to which CLEC is interconnected.

82.1.13.3. Sprint shall notify CLEC 48 hours in advance of any scheduled testing or maintenance affecting CLEC 911 service, and provide notification as soon as possible of any unscheduled outage affecting CLEC 911 service.

82.1.13.4. CLEC shall be responsible for reporting all errors, defects and malfunctions to Sprint. Sprint shall provide CLEC with the point of contact for reporting errors, defects, and malfunctions in the service and shall also provide escalation contacts.

82.1.13.5. CLEC may enter into subcontracts with third parties, including CLEC Affiliates, for the performance of any of CLEC's duties and obligations stated herein.

82.1.13.6. Sprint shall provide sufficient planning information regarding anticipated moves to SS7 signaling, for 911 services, for the next twelve (12) months.

82.1.13.7. Sprint shall provide prior notification of any impacts to the 911 services provided by Sprint to CLEC resulting from any pending Tandem moves, NPA splits, or scheduled maintenance outages, with enough time to react.

82.1.13.8. Sprint shall identify process for handling of "reverse ALI" inquiries by public safety entities.

82.1.13.9. Sprint shall establish a process for the management of NPA splits by populating the ALI database with the appropriate new NPA codes.

## 82.2. Directory Listings Service Requests

- 82.2.1. These requirements pertain to Sprint's Listings Service Request process that enables CLEC to (a) submit CLEC subscriber information for inclusion in Directory Listings ("DL") databases; (b) submit CLEC subscriber information for inclusion in published directories; and (c) provide CLEC subscriber delivery address information to enable Sprint to fulfill directory distribution obligations.
- 82.2.2. When implemented by the Parties, Sprint shall accept orders on a real-time basis via electronic interface in accordance with OBF Directory Service Request standards within three (3) months of the effective date of this Agreement. In the interim, Sprint shall create a standard format and order process by which CLEC can place an order with a single point of contact within Sprint.
- 82.2.3. Sprint will provide to CLEC the following Directory Listing Migration Options, valid under all access methods, including but not limited to, Resale, UNEs and Facilities-Based:
  - 82.2.3.1. Migrate with no Changes. Retain all white page listings for the subscriber in both Directory Assistance ("DA") and DL. Transfer ownership and billing for white page listings to CLEC.
  - 82.2.3.2. Migrate with Additions. Retain all white page listings for the subscriber in both DA and DL. Incorporate the specified additional listings order. Transfer ownership and billing for the white page listings to CLEC.
  - 82.2.3.3. Migrate with Deletions. Retain all white page listings for the subscriber in both DA and DL. Delete the specified listings from the listing order. Transfer ownership and billing for the white page listings to CLEC.
  - 82.2.3.4. To ensure accurate order processing, Sprint or its directory publisher shall provide to CLEC the following information, with updates promptly upon changes:
    - 82.2.3.4.1. A matrix of NXX to central office;
    - 82.2.3.4.2. Geographical maps if available of Sprint service area;
    - 82.2.3.4.3. A description of calling areas covered by each directory, including but not limited to maps of calling areas and matrices depicting calling privileges within and between calling areas;

- 82.2.3.4.4. Listing format rules;
  - 82.2.3.4.5. Standard abbreviations acceptable for use in listings and addresses;
  - 82.2.3.4.6. Titles and designations; and
  - 82.2.3.4.7. A list of all available directories and their Business Office close dates.
- 82.2.4. Based on changes submitted by CLEC, Sprint shall update and maintain directory listings data for CLEC subscribers who:
- 82.2.4.1. Disconnect Service;
  - 82.2.4.2. Change CLEC;
  - 82.2.4.3. Install Service;
  - 82.2.4.4. Change any service which affects DA information;
  - 82.2.4.5. Specify Non-Solicitation; and
  - 82.2.4.6. Are Non-Published, Non-Listed, or Listed.
- 82.2.5. Sprint shall not charge for storage of CLEC subscriber information in the DL systems.
- 82.2.6. CLEC shall not charge for storage of Sprint subscriber information in the DL systems.
- 82.3. Directory Listings General Requirements. CLEC acknowledges that many directory functions including but not limited to yellow page listings, enhanced white page listings, information pages, directory proofing, and directory distribution are not performed by Sprint but rather are performed by and are under the control of the directory publisher. CLEC acknowledges that for a CLEC subscriber's name to appear in a directory, CLEC must submit a Directory Service Request (DSR). Sprint shall use reasonable efforts to assist CLEC in obtaining an agreement with the directory publisher that treats CLEC at Parity with the publisher's treatment of Sprint.
- 82.3.1. This § 82.3 pertains to listings requirements published in the traditional white pages.
  - 82.3.2. Sprint shall include in its master subscriber system database all white pages listing information for CLEC subscribers in Sprint territories where CLEC is providing local telephone exchange services and has submitted a DSR.
  - 82.3.3 Sprint agrees to include one basic White pages listing for each CLEC

customer located within the geographic scope of its White Page directories, at no additional charge to CLEC. A basic White Pages listing is defined as a customer name, address and either the CLEC assigned number for a customer or the number for which number portability is provided, but not both numbers. Basic White Pages listings of CLEC customers will be interfiled with listings of Sprint and other LEC customers.

- 82.3.4. CLEC agrees to provide CLEC customer listing information, including without limitation directory distribution information, to Sprint, at no charge. Sprint will provide CLEC with the appropriate format for provision of CLEC customer listing information to Sprint. The Parties agree to adopt a mutually acceptable electronic format for the provision of such information as soon as practicable. In the event OBF adopts an industry-standard format for the provision of such information, the Parties agree to adopt such format.
- 82.3.5. Sprint agrees to provide White Pages database maintenance services to CLEC. CLEC will be charged a Service Order entry fee upon submission of Service Orders into Sprint's Service Order Entry (SOE) System, which will include compensation for such database maintenance services. Service Order entry fees apply when Service Orders containing directory records are entered into Sprint's SOE System initially, and when Service Orders are entered in order to process a requested change to directory records.
- 82.3.6. CLEC customer listing information will be used solely for the provision of directory services, including the sale of directory advertising to CLEC customers.
- 82.3.7. In addition to a basic White Pages listing, Sprint will provide, tariffed White Pages listings (e.g.: additional, alternate, foreign and non-published listings) for CLEC to offer for resale to CLEC's customers.
- 82.3.8. Sprint, or its directory publisher, agree to provide White Pages distribution services to CLEC customers within Sprint's service territory at no additional charge to CLEC. Sprint represents that the quality, timeliness, and manner of such distribution services will be at Parity with those provided to Sprint and to other CLEC customers.
- 82.3.9. Sprint agrees to include critical contact information pertaining to CLEC in the "Information Pages" of those of its White Pages directories containing information pages, provided that CLEC meets format and submission deadline criteria or other criteria established by its directory publisher. Critical contact information includes CLEC's business office number, repair number, billing information number, and any other information required to comply with applicable regulations, but not advertising or

purely promotional material. CLEC will not be charged for inclusion of its critical contact information. The format, content and appearance of CLEC's critical contact information will conform to applicable Sprint directory publisher's guidelines and will be consistent with the format, content and appearance of critical contact information pertaining to all CLECs in a directory.

- 82.3.10. Sprint will accord CLEC customer listing information the same level of confidentiality that Sprint accords its own proprietary customer listing information. Sprint shall ensure that access to CLEC customer proprietary listing information will be limited solely to those of Sprint and Sprint's directory publisher's employees, agents and contractors that are directly involved in the preparation of listings, the production and distribution of directories, and the sale of directory advertising. Sprint will advise its own employees, agents and contractors and its directory publisher of the existence of this confidentiality obligation and will take appropriate measures to ensure their compliance with this obligation. Notwithstanding any provision herein to the contrary, the furnishing of White Pages proofs to a CLEC that contains customer listings of both Sprint and CLEC will not be deemed a violation of this confidentiality provision.
- 82.3.11. Sprint will sell or license CLEC's customer listing information to any third parties unless CLEC submits written requests that Sprint refrain from doing so. Sprint and CLEC will work cooperatively to share any payments for the sale or license of CLEC customer listing information to third parties. Any payments due to CLEC for its customer listing information will be net of reasonable and demonstrable administrative expenses incurred by Sprint in providing such information to third parties. The parties acknowledge that the release of CLEC's customer listing to Sprint's directory publisher will not constitute the sale or license of CLEC's customer listing information causing any payment obligation to arise pursuant to this § 82.3.11.
- 82.4. Other Directory Services. Sprint will exercise reasonable efforts to cause its directory publisher to enter into a separate agreement with CLEC which will address other directory services desired by CLEC as described in this §82.4.2. Both parties acknowledge that Sprint's directory publisher is not a Party to this Agreement and that the provisions contained in this § 82.4.2 are not binding upon Sprint's directory publisher.
- 82.4.1. Sprint's directory publisher will negotiate with CLEC concerning the provision of a basic Yellow Pages listing to CLEC customers located within the geographic scope of publisher's Yellow Pages directories and distribution of Yellow Pages directories to CLEC customers.
- 82.4.2 Directory advertising will be offered to CLEC customers on a

nondiscriminatory basis and subject to the same terms and conditions that such advertising is offered to Sprint and other CLEC customers. Directory advertising will be billed to CLEC customers by directory publisher.

82.4.3. Directory publisher will use commercially reasonable efforts to ensure that directory advertising purchased by customers who switch their service to CLEC is maintained without interruption.

82.4.4. Information pages, in addition to any information page or portion of an information page containing critical contact information as described above in § 82.3.9 may be purchased from Sprint's directory publisher, subject to applicable directory publisher guidelines, criteria, and regulatory requirements.

82.4.5. Directory publisher maintains full authority as publisher over its publishing policies, standards and practices, including decisions regarding directory coverage area, directory issue period, compilation, headings, covers, design, content or format of directories, and directory advertising sales.

82.5. Directory Assistance Data. This section refers to the residential, business, and government subscriber records used by Sprint to create and maintain databases for the provision of live or automated operator assisted Directory Assistance. Directory Assistance Data is information that enables telephone exchange CLECs to swiftly and accurately respond to requests for directory information, including, but not limited to name, address and phone numbers. Under the provisions of the Act and the FCC's Interconnection order, Sprint shall provide unbundled and non-discriminatory access to the residential, business and government subscriber records used by Sprint to create and maintain databases for the provision of live or automated operator assisted Directory Assistance. This access shall be provided under separate contract.

82.6. Systems Interfaces and Exchanges

82.6.1. Directory Assistance Data Information Exchanges and Interfaces

82.6.1.1. Subscriber List Information

82.6.1.1.1. Sprint shall provide to CLEC, within sixty (60) days after the Approval Date of this Agreement, or at CLEC's request, all published Subscriber List Information (including such information that resides in Sprint's master subscriber system/accounts master file for the purpose of publishing directories in any format as specified by the Act) via an electronic data transfer medium and in a mutually agreed to format, on the same terms and conditions and at the same rates that Sprint provides Subscriber List Information to itself or to other third parties. All changes to



the Subscriber List Information shall be provided to CLEC pursuant to a mutually agreed format and schedule. Both the initial List and all subsequent Lists shall indicate for each subscriber whether the subscriber is classified as residence or business class of service.

82.6.1.1.2. CLEC shall provide directory listings to Sprint pursuant to the directory listing and delivery requirements in the approved OBF format, at a mutually agreed upon timeframe. Other formats and requirements shall not be used unless mutually agreed to by the parties.

82.7. Listing Types

LISTED

The listing information is available for all directory requirements.

NON-LISTED

The listing information is available to all directory requirements, but the information does not appear in the published street directory.

NON-PUBLISHED

A directory service may confirm, by name and address, the presence of a listing, but the telephone number is not available. The listing information is not available in either the published directory or directory assistance.

## **PART J - REPORTING STANDARDS**

### **83. GENERAL**

- 83.1. Sprint shall satisfy all service standards, intervals, measurements, specifications, performance requirements, technical requirements, and performance standards (Performance Standards) that are specified in this Agreement or are required by law or regulation. In addition, Sprint's performance under this Agreement shall be provided to CLEC at Parity with the performance Sprint provides itself for like service(s).

### **84. PARITY AND QUALITY MEASUREMENTS**

- 84.1. Sprint will develop self-reporting capabilities comparing Sprint results with CLEC results for the following measures of service parity within six (6) months of the Effective Date:
  - 84.1.1. Percentage of Commitment Times Met - Service Order
  - 84.1.2. Percentage of Commitment Times Met - Trouble Report
  - 84.1.3. Percent Repeated Trouble Reports
  - 84.1.4. Average Receive to Clear
  - 84.1.5. Percentage of Installed Orders without Repair in the first five (5) days
- 84.2. In the event CLEC chooses to utilize the Sprint operator service platform the following measures will be implemented within six (6) months of the date of first use by CLEC:
  - 84.2.1. Average Toll Answer Time; and
  - 84.2.2. Average Directory Assistance Answer Time.
- 84.3. All above measures will be implemented in a manner that is consistent with the current measures Sprint makes of its own performance.

## PART K – COLLOCATION ATTACHMENT

### 85. DEFINITIONS.

For the purposes of this Attachment, the following terms or phrases shall have the meaning set forth below:

- 85.1. "Active Collocation Space" means the space within a Sprint premises that has sufficient telecommunications infrastructure systems to house telecommunications equipment. Infrastructure systems includes floors capable of supporting equipment loads, heating, ventilating and air conditioning (HVAC) systems (AC poser), high efficiency filtration, humidity controls, remote alarms, compartmentation and smoke purge. Space within controlled environmental vaults (CEVs), huts and cabinets and similar eligible structures that can be designated for physical collocation shall be considered Active Collocation Space.
- 85.2. "Cable Vault" shall mean a location in a Premises where facilities enter the Premises from the Outside Cable Duct and access the Inner Duct for distribution within the Premises.
- 85.3. "Central Office Building" or "Building" shall mean a structure (not including a controlled environment vault ("CEV")) housing Sprint equipment that is under the control of Sprint and for which Sprint has the right to grant access and/or occupation by third parties.
- 85.4. "Collocation Arrangement" refers to a single, specific provision of Collocation in a particular Premises, not limited to a cage enclosing Licensee's equipment within the Premises.
- 85.5. "Collocation Point of Termination" shall mean the physical demarcation point as described in Section 89.
- 85.6. "Collocation Space" shall mean an area of space as agreed between the parties, located in a Building to be used by Licensee to house telecommunications equipment. Additionally, roof or wall space used for wireless interconnection shall be included in the definition where applicable.
- 85.7. "Controlled Environment Vault" shall mean a below ground room other than a Central Office Building which is controlled by Sprint and which is suitable for collocation of telecommunications equipment.
- 85.8. "Date of Occupancy" shall mean the date on which Licensee first occupies the Collocation Space pursuant to this Attachment.
- 85.9. "Inactive Collocation Space" means the space within the central office where infrastructure systems do not currently exist and must be constructed and where

Active Collocation space has been exhausted. The designation of Inactive Collocation Space is applicable to space within central offices only; other Sprint Premises such as CEVs, Huts, and Vaults shall be considered Active Collocation Space.

- 85.10. "Inner Duct" or "Conduit" shall mean any passage or opening in, on, under, over or through the Sprint Central Office Building cable or conduit systems.
- 85.11. "Live load capacity" as it relates to a Licensee's collocation space refers to the structural strength of the floor to support the weight of Licensee's property and equipment installed in the collocated space.
- 85.12. "LOE" shall mean Licensee-owned equipment.
- 85.13. "Outside Cable Duct" shall mean any space located outside the Central Office Building and owned by or under the control of Sprint through which Sprint runs its cable, conduit or other associated facilities.
- 85.14. "Physical Collocation" is as defined in 47 CFR 51.5.
- 85.15. "Premises" is as defined in 47 C.F.R. 51.5.
- 85.16. "Tariffed Service" shall mean the interconnection of Licensee's equipment and Sprint's equipment pursuant to the Sprint Access Service tariffs as filed with the Federal Communications Commission ("FCC"), or applicable state tariffs.
- 85.17. "Virtual Collocation" is as defined in 47 C.F.R. 51.5.

## **86. TERMINATION.**

- 86.1. Termination. Licensee may terminate occupancy in a particular Collocation Space upon thirty (30) calendar days prior written notice to Sprint. Upon termination of such occupancy, Licensee at its expense shall remove its equipment and other property from the Collocation Space. Licensee shall have thirty (30) calendar days from the termination date to complete such removal, including the removal of all equipment and facilities of Licensee's Guests; provided, however, that Licensee shall continue payment of monthly fees to Sprint until such date as Licensee has fully vacated the Collocation Space. Licensee will surrender the Collocation Space to Sprint in the same condition as when first occupied by Licensee, except for ordinary wear and tear.
- 86.2. Licensee shall be responsible for the cost of removing any enclosure, together with all supporting structures (e.g., racking, conduits), of an Adjacent Collocation arrangement at the termination of occupancy and restoring the grounds to their original condition. Upon termination of Licensee's right to possession without termination, Licensee shall surrender possession and vacate the Collocation Space within thirty (30) calendar days. Failure to surrender the Collocation Space within 30 days shall be considered abandonment and Sprint will have the right to remove the equipment and other property of Licensee or the Licensee's Guest at Licensee's

expense and with no liability for damage or injury to Licensee's property.

- 86.3 Should Sprint, if permitted under any section of this Attachment, remove any of Licensee's equipment from its collocation space, Sprint will deliver to Licensee any equipment removed by Sprint only upon payment by Licensee of the reasonable and demonstrable cost of removal, storage and delivery, and all other amounts due Sprint under this Attachment. Sprint is hereby given lien, subordinate only to any purchase money or financing lien in connection with the construction, reconstruction or extension Licensee's equipment located in Sprint's premises or removed therefrom, with power of public or private sale, to cover any amounts due Sprint under the provisions of this Attachment. Such lien shall not operate to prevent Sprint or joint users from pursuing, at their option, any other remedy in law, equity or otherwise, including any other remedy provided in this Attachment.
- 86.4. Surrender of Keys. Upon termination of occupancy in a particular Collocation Space, Licensee shall surrender all keys, access cards and Sprint-provided photo identification cards to the Collocation Space and the Building to Sprint, and shall make known to Sprint the combination of all combination locks remaining on the Collocation Space.
- 86.5. If it becomes necessary in Sprint's reasonable judgment, and there are no other reasonable alternatives available, Sprint shall have the right, for good cause shown, and upon 30 days prior notice or upon such other time frame required by law, to reclaim the Collocation Space or any portion thereof, any Inner Duct, Outside Cable Duct, Cable Vault space or other Sprint-provided facility in order to fulfill its common carrier obligations under any order or rule of the state commission or the FCC, or Sprint's tariffs to provide telecommunications services to its end user customers. In such cases, Sprint will reimburse Licensee for reasonable direct costs and expenses in connection with such reclamation.
- 86.6. If it becomes necessary in Sprint's reasonable judgment, and there are no other reasonable alternatives, Sprint may require Licensee to move to equivalent space in the Building. Sprint must provide Licensee sixty (60) days prior written notice, pay all moving costs, and work cooperatively with Licensee to minimize disruption to Licensee's customers. The charges for the Collocation Space provided for herein shall remain the same and Sprint shall not assess Licensee any additional charges in conjunction with, or as a result of, moving the Collocation Space.

## 87. SCOPE OF ATTACHMENT.

- 87.1. Sprint will provide Collocation to Licensee in accordance with this Attachment for the purposes of Interconnection to Sprint pursuant to the Act (including 47 U.S.C. § 251(c)(2)) and for obtaining access to Sprint's UNEs pursuant to the Act (including 47 U.S.C. § 251(c)(3)). Collocation shall be provided on a nondiscriminatory basis, on a "first-come, first-served" basis, and otherwise in

accordance with the requirements of the Act (including 47 U.S.C. § 251(c)(6)).

- 87.2. Prices and fees for collocation and other services under this Attachment are contained in the price list attached hereto as Attachment B. In the event Sprint files tariffs for pricing of collocation and other services covered by this Attachment, such pricing in the tariffs will control over Attachment B as of the date the tariff becomes effective. The terms and conditions of this Attachment will control over any terms and conditions in the tariff.
- 87.3. This Attachment states the general terms and conditions upon which Sprint will grant to Licensee a non-exclusive license to gain access to and occupy the Collocation Space, and other associated facilities as may be necessary, for the purpose of providing telecommunications service as specifically identified on a completed, numbered and dated Site Collocation License executed by both Parties (which Site Collocation License shall be in substantially the form attached as Attachment A). Such service will be provided by installing, maintaining and operating Licensee's equipment, which will interconnect with telecommunications services and facilities provided by Sprint or others in accordance with this Attachment.

## 88. COLLOCATION OPTIONS.

- 88.1. Cageless. Sprint will offer Collocation Space to allow Licensee to collocate its equipment and facilities, and without requiring the construction of a cage or similar structure. Sprint will allow Licensee to have access to its equipment and facilities 24 hours a day, 7 days a week without need for a security escort provided that Licensee has met Sprint's safety and security requirements. Sprint may require Licensee to use a central entrance to the Sprint Central Office. Sprint shall make cageless collocation available in single bay increments, including space adjacent or next to Sprint's equipment. Except where Licensee's equipment requires special technical considerations (e.g., special cable racking, isolated ground plane), Sprint will assign cageless Collocation Space in conventional equipment rack lineups where feasible. For equipment requiring special technical considerations, Licensee must provide the equipment layout, including spatial dimensions for such equipment pursuant to generic requirements contained in Telcordia GR-63-Core and shall be responsible for constructing all special technical requirements associated with such equipment pursuant to this Attachment.
- 88.2. Caged. Sprint will authorize the enclosure of Licensee's equipment and facilities at Licensee's option. Sprint will provide guidelines and specifications upon request. Based on Licensee's request, space and cage enclosures in amounts as small as that sufficient to house and maintain a single rack or bay or equipment will be made available. At Licensee's option, Sprint will permit Licensee to arrange with a third party vendor to construct a Collocation Arrangement enclosure at Licensee's sole expense. If Licensee is the first CLEC in a Sprint Premises, Licensee will not be responsible for the entire cost of site preparation

and security. Licensee's third party vendor will be responsible for filing and receiving any and all necessary permits and/or licenses for such construction. The third party vendor shall bill Licensee directly for all work performed for Licensee and Sprint will have no liability for nor responsibility to pay such charges imposed by the third party vendor. Licensee must provide the local Sprint building contact with one Access key used to enter the locked enclosure. Except in case of emergency, Sprint will not access Licensee's locked enclosure prior to notifying Licensee and obtaining authorization.

88.2.1. Sprint has the right to review Licensee's plans and specifications prior to allowing construction to start. Sprint will complete its review within fifteen (15) calendar days. Sprint has the right to inspect the enclosure after construction to make sure it is constructed according to the submitted plans and specifications. Sprint can require Licensee to remove or correct, at its cost, any structure that does not meet these plans.

88.3. Shared (Subleased) Caged Collocation. Licensee may allow other telecommunications carriers to share its caged collocation arrangement pursuant to terms and conditions agreed to by Licensee ("Host") and other telecommunications carriers ("Guests"). Licensee will notify Sprint in writing upon execution of any agreement between the Host and its Guest within twelve (12) calendar days of its execution. Further, such notice shall include the name of the Guest(s) and their term of agreement, and shall contain a certification by Licensee that said agreement imposes upon the Guest(s) the same terms and conditions (excluding rates) for collocation space as set forth in this Attachment.

88.3.1. As Host, Licensee will be the sole interface and responsible party to Sprint for the purpose of submitting applications for initial and additional equipment placements of Guest (to the extent required under other sections of the Standard Offer); for assessment and payment of rates and charges applicable to the Collocations space; and for the purposes of ensuring that the safety and security requirements of this Attachment are fully complied with by the Guest, its employees and agents. In making shared cage arrangements, Sprint will not increase the cost of site preparation or nonrecurring charges above the cost of provisioning such a cage of similar dimensions and material to a Licensee.

88.3.2. Sprint will not place unreasonable restrictions on Licensee's use of a cage, and as such will allow Licensee to contract with other CLECs to share the cage in a sublease type arrangement. If two (2) or more CLECs have interconnection agreements with Sprint utilize a shared collocation cage, Sprint will permit each CLEC to order UNEs and provision service from the shared collocation space, regardless of which CLEC was the original collocater.

88.3.3. If Host terminates a Collocation Arrangement, Host will provide Guest 30 days notice. Guest will assume all obligations and rights of Host as to that

Collocation Arrangement if Guest remains in the Collocation Space, including payment of all charges.

- 88.4. Adjacent Collocation Sprint will provide adjacent collocation arrangements ("Adjacent Arrangement") where space within the Premises is legitimately exhausted, subject to technical feasibility. Both Parties will mutually agree on the location of the designated space on the Sprint property where the adjacent structure (such as a CEV or similar structure) will be placed. If a mutual agreement cannot be reached, Sprint will decide the location. Unless prohibited by zoning or other state and local regulations, Sprint will not withhold agreement as to the site desired by Licensee, subject only to reasonable safety and maintenance requirements.
- 88.4.1. Licensee will provide a concrete pad, the structure housing the arrangement, HVAC, lighting, and all facilities that connect the structure (i.e. racking, conduits, etc.) to the Sprint point of interconnection. Should Licensee elect such an option, Licensee must arrange with a third party vendor to construct an Adjacent Arrangement structure in accordance with this Attachment.
- 88.4.2. Sprint maintains the right to review Licensee's plans and specifications prior to construction of an Adjacent Arrangement(s). Sprint will complete its review within thirty (30) calendar days of receipt of the Bona Fide Firm Order (BFFO). Except that such time period may be extended if any delay is due to the actions of Licensee. Sprint may inspect the Adjacent Arrangement(s) following construction and prior to commencement to ensure the design and construction comply with submitted plans. Sprint may require Licensee to correct any deviations from approved plans found during such inspection(s).
- 88.4.3. Sprint will provide AC power, as requested, subject to being technically feasible. At its option, Licensee may choose to provide its own AC power to the adjacent structure as long as the AC power source is from the same provider as Sprint's.
- 88.4.4. Subject to Licensee being on the waiting list, in the event that space in a Sprint Premises becomes available, Sprint will provide the option to the Licensee to relocate its equipment from an Adjacent Facility into the Sprint Premises. In the event Licensee chooses to relocate its equipment, appropriate charges applicable for collocation within the Sprint Premises will apply.
- 88.5. Contiguous Space To the extent possible, Sprint will provide Licensee with contiguous space for any subsequent request for physical collocation space, but makes no assurances that contiguous space will be available
- 88.6. Virtual Collocation. Sprint will provide virtual collocation, subject to being technically feasible, if physical collocation is not practical for technical reasons or



because of space limitations and in accordance with the Act (including 47 U.S.C. § 251(c)(6) and 47 C.F.R. § 51.323).

- 88.6.1. Licensee may from time to time, lease to Sprint, at no cost to Sprint, equipment that meet applicable FCC requirements and in accordance with this Attachment, for the sole purpose of having Sprint install and maintain the equipment in accordance with terms and conditions mutually agreed upon by the Parties.
- 88.6.2. Virtually collocated equipment shall be purchased by Licensee. Sprint does not assume any responsibility for the design, engineering, testing or performance for the end-to-end connection of Licensee's equipment, arrangement or facilities; provided however, that Sprint retains responsibility for the installation, testing, maintenance, and repair services it provides to Licensee under this Attachment.
- 88.6.3. Sprint will, at a minimum, install, maintain, and repair Licensee's collocated equipment within the same time periods and with failure rates that are no greater than those that apply to the performance of similar functions for comparable equipment of Sprint, Sprint's affiliates or third parties. The following services are not covered by this Attachment: 1) services to resolve software or hardware problems resulting from products provided by parties other than Sprint or causes beyond the control of Sprint; 2) service of attached, related, collateral or ancillary equipment or software not covered by this section; 3) repairing damage caused to Licensee's collocated equipment by persons other than Sprint, or its authorized contractors, or 4) repairing damage to other property or equipment caused by operation of Licensee's collocated equipment and not caused by the gross negligence or willful misconduct of Sprint.
- 88.6.4. Licensee warrants that Sprint shall have quiet enjoyment of the equipment. Sprint will be entitled to the benefit of any applicable manufacturer's warranties and indemnities and, to the extent assignable, such warranties and indemnities are hereby assigned by Licensee for the benefit of Sprint and Licensee shall take all reasonable action to enforce such warranties and indemnities where available to Sprint. Licensee shall execute, upon presentation, such documents and instruments as may be required to allow Sprint manufacturer's warranty coverage for any equipment. Licensee warrants that it has full authority to lease the equipment under the terms and conditions set forth herein and that there are no restrictions, legal or otherwise, which would preclude it from so doing.
  - 88.6.4.1 In the event Sprint's right to quiet enjoyment is breached, either by Licensee's failure to make or cause to be made payment to the equipment manufacturer of the full purchase price for the equipment when such payment becomes due, or otherwise, Sprint may give written notice to Licensee and all of Sprint's

obligations relating to the affected equipment shall terminate immediately.

88 6.5. Sprint's preparation, if any, of the Premises (e.g., Power, environmental, etc.) for the Virtual Collocation equipment will be charged to Licensee at rates agreed on by the Parties or as filed in a tariff and approved by the Commission

88.7 A "Splitter" is a device that divides the data and voice signals concurrently moving across the loop, directing the voice traffic through copper tie cables to the switch and the data traffic through another pair of copper tie cables to multiplexing equipment for delivery to the packet-switched network. The Splitter may be directly integrated into the DSLAM equipment or may be externally mounted.

#### 88.7.1. Splitters

88.7.1.1. Option One. In providing access to the High Frequency Spectrum Network Element, Licensee may purchase, install and maintain the splitter in their caged or cageless collocation space. There are two wiring configurations associated with the DSLAMS: (1) the DSLAM is direct wired to the POTS Splitter and (2) the DSLAM is direct wired to the MDF. All wiring connectivity from Licensee's Splitter(s) (Sprint analog voice input to the splitter and combined analog voice/data output from the splitter) will be cabled out to the Sprint distribution frame for cross connection with jumpers. Sprint will provide and, if requested, install the cabling from Licensee's Collocation Space to Sprint's distribution frame and be reimbursed, as applicable, per the normal collocation process, except that no charges shall apply for any reassignment of carrier facilities ("CFA") or reduction of existing facilities. Licensee will make all cable connections to their equipment.

#### 88.7.1.2. Option Two - Lease

88.7.1.2.1. Licensee may from time to time, lease to Sprint, at no cost to Sprint, rack mounted POTS splitters that meet applicable FCC requirements, such as the requirements for POTS splitters contained in Annex E in the ADSL standard, T1.413-1998 "Network and Customer Interfaces - Asymmetric Digital Subscriber Line (ADSL) Metallic Interface", and subsequent revisions (the "Splitters") for the sole purpose of having Sprint install the Splitter(s), replace Splitter(s), and replace the Splitter cards in Sprint's Central Offices

#### 88.7.2. Application and Provisioning

- 88.7.2.1. For each Splitter that Licensee desires to place in a Sprint Central Office in which Licensee is already collocated, Licensee will submit to Sprint an Application. If Licensee is not yet collocated, Licensee will request Splitter provisioning at the time of application for collocation.
- 88.7.2.2. Sprint will complete the installation within 60 calendar days following Firm Order Commitment and Sprint's receipt of the Splitter(s). Sprint will provide Licensee with a deployment schedule for completing installation of the Splitters if the installation will be completed in less than 60 days.
- 88.7.2.3. Licensee agrees to pay the reasonable and demonstrable costs of the engineering work within 30 days of receipt of Sprint's invoice. Licensee will also pay the full costs of transportation of the Splitters to the applicable Sprint Central Office.
- 88.7.2.4. The Parties agree that each Splitter provided by Licensee to Sprint under a License shall constitute a lease of such Splitter by Licensee to Sprint, at no cost, for the term of the License.

#### 88 7.3. Installation

- 88.7.3.1. Sprint agrees to place the Splitters in the applicable Central Offices in an appropriate location chosen by Sprint. Sprint will use reasonable efforts to install the Splitter in a relay rack or bay as close to the main distribution frame as is reasonably practicable. Unless otherwise agreed upon in writing between the Parties, rack space will be allocated on a shelf by shelf basis.
- 88.7.3.2. All wiring connectivity from Licensee's splitter (Sprint analog voice input to the splitter and combined analog voice/data output from the Splitter) will be cabled out to the Sprint main distribution frame for cross connection with jumpers if practicable.
- 88 7.3.3. Sprint will provide and install the cabling from the Splitter(s) to Sprint's main distribution frame and from the Splitter(s) to Licensee's Collocation Space at pricing set forth in Attachment B, except that no charges shall apply for any reassignment of carrier facilities or reduction of existing facilities.

#### 88.7.4. Cards

- 88.7.4 1. Licensee is responsible for ordering and providing to Sprint splitter cards as necessary to effectively operate the Splitter.

Sprint will install such cards per Licensee's instructions. Licensee will provide one empty card for every shelf to be used for repair and maintenance until such time as the card must be used to fill the shelf to capacity. Licensee is responsible for Splitter assignments and monitoring for exhaust based on block and pin assignments.

#### 88 7.4.2. Card and Splitter Replacement

88.7.4.2.1. During the term of each License that includes Splitters, Sprint agrees to replace the Splitter cards if requested to do so by Licensee. Sprint and Licensee shall take efforts to minimize possible service disruptions, including, but not limited to, replacing Splitter cards during maintenance windows. Sprint will not use the Splitters for any purposes other than that for which they were designed. Sprint may perform these obligations through Sprint's employees or any qualified company.

88.7.4.2.2. Licensee will provide replacement cards and replacement Splitters as required. Replacement Splitters will be either new or of like-new quality. Upon Licensee's written request, Sprint will return the replaced Splitter(s) to Licensee. Licensee agrees to pay the full costs of transportation of replacement Splitters to and from Sprint's central office.

88.7.4.2.3. The following services are not covered by this Attachment: 1) services to resolve software or hardware problems resulting from products provided by parties other than Sprint or causes beyond the control of Sprint; 2) service of attached, related, collateral or ancillary equipment or software not covered by this Attachment; 3) repairing damage caused to the Splitter by persons other than Sprint, or its authorized contractors, or 4) repairing damage to other property or equipment caused by operation of the Splitter and not caused by the gross negligence or willful misconduct of Sprint.

#### 88 7.5. Co-operative Testing and Inspection

88.7.5 1. Licensee agrees that operation of the Splitters will not commence before Licensee provides a device to Sprint, which

will allow Sprint to test when it installs the Splitters and cabling.

88.7.5.2. Sprint agrees to allow Licensee to have reasonable, escorted access to the Splitters and the termination points for cooperative testing and inspection upon the request of either party, at a time mutually agreeable to both parties and in accordance with Sprint's Co-operative Testing Policy. The requesting party agrees to pay the other party's reasonable and demonstrable costs calculated on a time and material basis.

88.7.5.3. When the Licensee is provided test access to the splitter and its termination points, Licensee will at all times permit only those of its employees, contractors, or agents to make such testing who are properly certified as qualified under reasonable terms and conditions determined by Sprint within its sole discretion and applied equally to Sprint's employees, agents, and third-party contractors, and under such contract arrangements reasonably required by Sprint of Licensee.

#### 88.7.6. Payment

88.7.6.1. Sprint shall perform replacement of the cards and the Splitters on a time and materials basis as needed. Licensee will make Payment according to the License for maintenance services within 30 days of receipt by Licensee of Sprint's invoice.

88.7.6.2. Prices for all other services associated with the Splitters, including rack or bay space, are reflected in the price list or applicable tariff.

#### 88.7.7. Return of Splitters

88.7.7.1. Upon termination of any License that includes Splitters (by expiration or otherwise) Sprint will insure that the Splitter is in as good operating order, repair, condition and appearance as when received, less normal wear and tear, and excepting physical damage, loss, destruction, theft or governmental taking in which case the provisions of Section 10 shall apply. Licensee agrees to provide Sprint via pre-paid delivery with a medium for packaging and transportation of such Splitter. Licensee absolves Sprint of any damage, which may occur as a result of Splitter transportation to Licensee.

#### 88.7.8. Labeling

88.7 8.1. Sprint agrees that, upon the request of Licensee, it shall cause the Splitters to be plainly, permanently, and conspicuously marked, by metal tag or plate supplied by Licensee to be

affixed thereto, indicating Licensee's ownership of the Splitters. Sprint will not remove, destroy or obliterate any such marking. Sprint agrees to keep all Splitters free from any marking or labeling which might be interpreted as a claim of ownership thereof by Sprint or any party other than the Licensee.

#### 88.7.9. Loss and Damage

- 88.7.9.1. Licensee shall bear the risk of loss or damage to the Splitter, except that occasioned by Sprint's willful acts or gross negligence, with respect to any damage, destruction, loss, theft or governmental taking of any Splitter.

#### 88.7.10. Warranty

- 88.7.10.1. Licensee warrants to Sprint that, so long as no event of default has occurred and is continuing under this Amendment, neither Licensee nor any assignee of Licensee will disturb Sprint's quiet and peaceful possession of the Splitters and Sprint's unrestricted use thereof for its intended purposes and Licensee warrants that Sprint shall have quiet enjoyment of the Splitters. Sprint will be entitled to the benefit of any applicable manufacturer's warranties and indemnities and, to the extent assignable, such warranties and indemnities are hereby assigned by Licensee for the benefit of Sprint and Licensee shall take all reasonable action to enforce such warranties and indemnities where available to Sprint. Licensee shall execute, upon presentation, such documents and instruments as may be required to allow Sprint manufacturer's warranty coverage for any Splitter. Licensee warrants that it has full authority to lease the Splitters under the terms and conditions set forth herein and that there are no restrictions, legal or otherwise, which would preclude it from so doing.

#### 88.7.11. Payment to Manufacturer

- 88.7.11.1. In the event Sprint's right to quiet enjoyment is breached, either by Licensee's failure to make or cause to be made payment to the Splitter manufacturer of the full purchase price for the Splitter when such payment becomes due, or otherwise, Sprint may give written notice to Licensee and all of Sprint's obligations relating to the affected Splitters shall terminate immediately.

#### 88.7.12. Forecast

88.7.12.1. Licensee will provide monthly forecast information to Sprint updated quarterly on a rolling twelve-month basis for requests for Voice Grade Loops (including Subloops), Non-Voice Grade Loops (including Subloops), and HFS UNEs. An initial forecast meeting should be held soon after the first implementation meeting. A forecast should be provided at or prior to the first implementation meeting. The forecasts shall project the gain/loss of shared lines on a monthly basis by Sprint wire center and shall include a description of any major network projects planned by Licensee that will affect the demand. Forecast information shall be subject to the confidentiality provisions of this Attachment. Forecast information will be used solely for network planning and operations planning and shall not be disclosed within Sprint except as required for such purposes. Under no circumstances shall Licensee's specific forecast information be disclosed to Sprint's retail organization (excluding solely those operational personnel engaged in network and operations planning), product planning, sales or marketing.

88.7.12.2. Upon request of either Party, the Parties shall meet to review their forecasts going forward if forecasts vary significantly from actual results.

88.7.12.3. Each Party shall provide a specified point of contact for planning purposes.

#### 88.7.13. Indemnification

88.7.13.1. Each Party, whether a Licensee or Sprint, agrees that should it cause any non-standard DSL technologies to be deployed or used in connection with or on Sprint facilities, that Party will pay all costs associated with any damage, service interruption or other telecommunications service degradation, or damage to the other Party's facilities.

88.7.13.2. For any technology, Licensee represents that its use of any Sprint network element, or of its own equipment or facilities in conjunction with any Sprint network element, will not materially interfere with or impair service over any facilities of Sprint, its affiliated companies or connecting and concurring carriers, cause damage to Sprint's plant, impair the privacy of any communications carried over Sprint's facilities or create hazards to employees or the public. Upon reasonable written notice and after a reasonable opportunity to cure, Sprint may discontinue or refuse service if Licensee violates this provision, provided that such termination of service will be limited to

Licensee's use of the element(s) causing the violation. Sprint will not disconnect the elements causing the violation if, after receipt of written notice and opportunity to cure, Licensee demonstrates that their use of the network element is not the cause of the network harm.

## **89. DEMARCATION POINT.**

- 89.1. Sprint will designate the point of demarcation, unless otherwise mutually agreed to by the Parties, in or adjacent to its Collocation Space. At Licensee's request, Sprint will identify the location(s) of other possible demarcation points available to Licensee, and Licensee will designate from these location(s) the point(s) of demarcation between its collocated equipment and Sprint's equipment. Sprint will use its best efforts to identify the closest demarcation point to Licensee's equipment that is available.
- 89.2. Each Party will be responsible for maintenance and operation of all equipment/facilities on its side of the demarcation point. For 2-wire and 4-wire connections to Sprint's network, Sprint may offer, as an option to Licensee, a demarcation point that is a common block on Sprint designated conventional distributing frame. Licensee will be responsible for providing, and Licensee's third party vendor shall be responsible for installing and properly labeling/stenciling, the common block, and necessary cabling. Licensee or its agent must perform all required maintenance to equipment/facilities on its side of the demarcation point, following, and may self-provision cross-connects that may be required within the Collocation Space to activate service requests.
- 89.3. At Licensee's option and expense, a point of termination (POT) bay, frame or digital cross-connect may be placed in or adjacent to the Collocation Space that may, at Licensee's option, serve as the demarcation point. If Licensee elects not to provide a POT frame, Sprint will agree to handoff the interconnection cables to Licensee at its equipment, at Licensee's designated demarcation point. When Licensee elects to install its own POT frame/cabinet, Sprint must still provide and install the required DC power panel.

## **90. APPLICATION PROCESS.**

- 90.1. Upon Licensee's selection of a Premises in which it desires to collocate its Equipment, Sprint will provide a then current collocation application form (the "Application") to Licensee. Licensee will submit an Application when initially requesting Collocation Space, or modifying the use of the Collocation Space in a manner that exceeds its forecasted space and power requirements. The Application shall contain a detailed description and schematic drawing of the equipment to be placed in Licensee's Collocation Space(s), an estimate of the amount of square footage required (or, in the case of Cageless Collocation, bay-space), as well as the associated power requirements, floor loading, and heat release of each piece.



- 90.1.1. Licensee will complete the Application, and return it, along with the appropriate Application Fee, to Sprint. The Application shall include complete details of the collocation and interconnection requested, including, but not limited to, specific floor space, power, and environmental conditioning requirements. Sprint will not process an Application until both the Application and the applicable Application fee are received.
- 90.1.2. Application Augment Fee. In the event Licensee desires to modify or decommission the use of the Collocation Space in a manner that requires additional engineering or preparation work by Sprint, Licensee will complete a subsequent Application detailing all information regarding the modification to the Collocation Space together with payment of the appropriate Application Augment Fee. Such modifications to the Premises may include but are not limited to, floor loading changes, changes necessary to meet HVAC requirements, changes to power plant requirements, and equipment additions.
- 90.1.3. No Subsequent Fee. Where Licensee modifies the use of the Collocation Space or adds equipment that requires no additional engineering or preparation work on the part of Sprint, Sprint will not impose additional charges or additional intervals that would delay Licensee's operation. Licensee will notify Sprint of the modifications or additional equipment prior to installation.
- 90.1.4. If Collocation Space is unavailable or Licensee withdraws its request, the Application fee, less the reasonable and demonstrable costs incurred by Sprint (e.g. engineering record search and administrative activities required to process the Application) will be refunded.
- 90.2. Multiple Methods. If Licensee wishes Sprint to consider multiple methods for collocation on a single Application, Licensee will need to include in each Application a prioritized list of its preferred methods of collocating, e.g., caged, shared, or other, as well as adequate information, (e.g., specific layout requirements, cage size, number of bays, requirements relative to adjacent bays, etc.) for Sprint to process the Application for each of the preferred methods. If Licensee provides adequate information and its preferences with its Application, Sprint may not require an additional Application, nor would Licensee be required to restart the quotation interval should its first choice not be available in a requested Premises. Sprint will not select for Licensee the type of collocation to be ordered.
- 90.3. Within ten calendar days after receiving Licensee's Application for Physical Collocation, Sprint must inform Licensee whether the Application meets each of Sprint's established collocation standards. Should Licensee submit a revised Application curing any deficiencies in an Application for Physical Collocation within ten calendar days after being informed of them, Licensee shall retain its

original position within any collocation queue that Sprint maintains. If Sprint informs Licensee that there is a deficiency in an Application, Sprint must provide sufficient detail so that Licensee has a reasonable opportunity to cure each deficiency.

- 90.4. In order to increase the amount of space available for collocation, Sprint will, upon request, remove obsolete or unused equipment, from its Premises to increase the amount of space available for collocation.
- 90.5. Revisions. All revisions to an initial request for a Physical Collocation Arrangement submitted by Licensee must be in writing. A new interval for the Physical Collocation Arrangement will be established which shall not exceed two months beyond the originally established date. Licensee will be required to pay any applicable application fees.
- 90.6. Price Quote. Sprint will provide a price quote within fourteen (14) calendar days of providing the response to the request for space availability for one (1) to five (5) applications, and within twenty (20) calendar days for six (6) or more applications. The quotation will include the applicable nonrecurring and recurring rates, and (where applicable) the estimated construction or provisioning interval no later than those specified in Section 94.
- 90.7. Licensee has sixty-five (65) calendar days from receipt of the quotation to accept the quotation in writing. The quotation expires after sixty-five (65) calendar days. After sixty-five (65) calendar days, a new Application and Application fee are required. Collocation Space is not reserved until the quotation is accepted. Sprint need not meet the deadlines for provisioning Physical Collocation if, after receipt of any price quotation provided by Sprint, Licensee does not notify Sprint that physical collocation should proceed.
- 90.8. Bona Fide Firm Order (BFFO). For physical, both caged and cageless, and virtual collocations, Licensee will indicate its intent to proceed with equipment installation in a Sprint Premises by accepting the price quote, which constitutes a BFFO. The BFFO must be received by Sprint no later than sixty-five (65) calendar days after Sprint's provisioning of the price quote in response to Licensee's Application. If Licensee makes changes to its application in light of Sprint's written Application Response, Sprint may be required to re-evaluate and respond to the change(s). In this event, Licensee's Application will be treated as a Revision.
- 90.9. Space preparation for the Collocation Space will not begin until Sprint receives the Bona Fide Firm Order and all applicable fees, including all non-recurring charges.

## 91. APPLICATION RESPONSE.

- 91.1. Application Intervals. Sprint shall provide confirmation of space availability for one (1) to five (5) applications submitted within ten (10) calendar days from the

receipt of a completed application and application fee. For six (6) to twenty (20) applications, Sprint shall provide confirmation of space availability within twenty-five (25) calendar days from the receipt of a completed application and application fee. Should Licensee submit twenty-one (21) or more application request within five (5) business days, confirmation of space availability will be increased by five (5) calendar days for every five (5) additional reports requested or fraction thereof. In addition to response time for confirmation of space availability, and additional twenty (20) calendar days will be required for estimated price.

91.1.1. Sprint will notify Licensee in writing as to whether its request for Collocation Space has been granted or denied due to lack of space. The notification will also include a possible future space relief date, if applicable.

91.1.2. In its notification, Sprint will also inform Licensee if the space available for the requested Premises will be Active or Inactive Collocation Space. If Licensee's space is placed in Inactive Space, then the notification shall also include rationale for placing the requested space in such category, including all power and other factors used in making the determination.

91.2. Denial of Application. After notifying the Licensee that Sprint has no available space in the requested Central Office ("Denial of Application"), Sprint will allow the Licensee, upon request, to tour the entire Central Office within ten (10) calendar days of such Denial of Application. In order to schedule said tour within ten (10) calendar days, the request for a tour of the Central Office must be received by Sprint within five (5) calendar days of the Denial of Application.

91.2.1. If Licensee contests Sprint's notice that there is not sufficient space in the Central Office, the parties agree to seek expedited resolution of the dispute at the Commission pursuant to Section 251(c)(6) of the Act. If the Commission determines that space is not available, Sprint will not be required to conduct a review of floor space availability in the same central office more frequently than once every six months.

91.2.1.1. At the same time that Sprint notifies Licensee of a denial of space, Sprint will file a copy of the letter with the Commission that contains the information required by Applicable Rules, subject to proprietary protections.

91.2.2. On a first come, first serve basis, Sprint will maintain a waiting list of requesting carriers who have either received a Denial of Application or, where it is publicly known that the Premises is out of space, have submitted a Letter of Intent to collocate.

91.2.3. Sprint will simultaneously notify the telecommunications carriers on the waiting list when space becomes available within ten (10) calendar days if there is enough space to accommodate additional collocation. Subsequent to the granting of a Petition for Waiver, if Licensee has been denied space

at a Sprint Premises and challenges Sprint on space availability at said Premises, Licensee will be given priority for space assignment if, as a result of the challenge, space is found to be available. Licensee will reaffirm its collocation request within thirty (30) calendar days of such notification; otherwise, it will be dropped to the bottom of the list. Upon request, Sprint will advise Licensee as to its position on the list.

91.2.4. If Licensee's Application for Physical Collocation is denied due to lack of space, Sprint will place Licensee on the waiting list for collocation in particular Premises according to the date Licensee submitted its Application and not the date of denial for lack of space.

91.2.5. Sprint will maintain on its website a notification document that will indicate all Premises that are without available space. Sprint will update such document within ten (10) calendar days of the date at which a Premises runs out of physical collocation space.

## 92. CONSTRUCTION.

92.1. Sprint shall permit Licensee or its designated subcontractor to perform the construction of physical collocation space, provided however, that any such Licensee subcontractor shall be subject to Sprint's security standards. Sprint reserves the right to reject any Licensee subcontractor upon the same criteria that Sprint would use on its own subcontractors. Licensee will notify Sprint in writing when construction of physical collocation space is complete. Sprint will commence billing (1) upon notice of completion; (2) 90 calendar days (for Active Collocation Space) or 126 calendar days (when Active Collocation Space has been exhausted) from Licensee's acceptance of the price quote; or (3) upon commencement of operations, whichever is earliest.

92.2. Sprint Inspection. Sprint shall have the right to inspect Licensee's completed installation of equipment and facilities prior to Licensee turning up such equipment and facilities. Licensee shall provide written notification to Sprint when Licensee has completed its installation of equipment and facilities in the Collocation space, and Sprint shall, within five (5) Business Days of receipt of such notice, either (i) inspect such Collocation space or (ii) notify Licensee that Sprint is not exercising its right to inspect such Collocation space at that time and that Licensee may turn up its equipment and facilities. Failure of Sprint to either inspect the Collocation space or notify Licensee of its election not to inspect such space within the foregoing five (5) Business Day period shall be deemed an election by Sprint not to inspect such Collocation space. Licensee shall have the right to be present at such inspection, and if Licensee is found to be in non-compliance with the terms and conditions of this Attachment that relate to the installation and use of Licensee's Collocated equipment and facilities, Licensee shall modify its installation to achieve compliance prior to turning up its equipment and facilities.

- 92.3. To the extent Sprint performs the construction of the Physical Collocation Arrangement, Sprint shall construct the Collocated Space in compliance with mutually agreed collocation request. Any deviation to Licensee's order must thereafter be approved by Licensee. The Parties acknowledge that Licensee approved deviations may require additional construction time and may incur additional Licensee expenses. Licensee shall pay the incremental, reasonable and demonstrable cost incurred by Sprint as the result of Revision applicable to construction of any Collocation Space. Licensee will pay all nonrecurring charges set forth on the price quote, prior to Sprint commencing construction of the collocation space.
- 92.4. Extraordinary Construction Costs. Licensee will be responsible for all extraordinary costs, as determined in accordance with the Act, incurred by Sprint to prepare the Collocation space for the installation of Licensee's equipment and for extraordinary costs to maintain the Collocation space for Licensee's equipment on a going-forward basis. Extraordinary costs may include costs for such items as asbestos removal, fire suppression system or containment, modifications or expansion of cable entry facility, increasing the DC power system infrastructure capacity, increasing the capacity of the standby AC system (if available) or the existing commercial power facility, conversion of non-Collocation space, compliance with federal and state requirements, or other modifications required by local ordinances. Sprint will charge for these extraordinary costs on a time-sensitive or time-and-materials basis and will allocate the costs fairly among itself, Licensee and other collocators. An estimate of such costs, as determined in accordance with the Act, will be provided to Licensee prior to commencing such work. Extraordinary costs will only be billed to Licensee if such costs have been authorized by Licensee. Sprint must advise Licensee if extraordinary costs will be incurred.
- 92.5. Permits. Each Party or its agents will diligently pursue filing for the permits required for the scope of work to be performed by that Party or its agents.
- 92.6. Acceptance Walk Through. Sprint will notify Licensee when construction of a Collocation Space is complete. The Parties will complete an acceptance walk through of each provisioned Collocation Space. Sprint will commence to correct any deviations to Licensee's original or jointly amended requirements within five (5) calendar days after the walk through. If Licensee does not conduct an acceptance walk through within 15 days of the notification that the Collocation Space construction is complete, Licensee will be deemed to have accepted the Collocation Space and billing will commence.
- 92.7. If, at anytime, Licensee cancels its order for Physical Collocation, Caged, Shared Cage, or Adjacent Space Collocation, or Virtual Collocation, Licensee will reimburse Sprint for any reasonable and demonstrable expenses incurred and not already paid, which may include incidental equipment costs, material ordered, provided or used; labor; transportation, DS0, DS1 and DS3 cable and all other associated costs. Sprint shall provide Licensee with a detailed listing showing the

costs incurred.

**93. SPACE RESERVATION.**

- 93.1. Licensee may reserve Collocation space for its future use in Sprint's Premises. Sprint shall notify Licensee in writing if another Telecommunications Carrier requests Collocation space that is reserved by Licensee. Licensee shall, within five (5) Business Days of receipt of such notice, provide Sprint either (i) written notice that Licensee relinquishes such space or (ii) enforce its reservation of space. Failure of Licensee to respond to Sprint within the foregoing five (5) Business Day period shall be deemed an election by Licensee to relinquish such space.
- 93.2. The parties may reserve floor space for their own specific uses for the remainder of the current year, plus twelve (12) months. Neither Sprint, nor any of its affiliates, will reserve space for future use on terms more favorable than those that apply to other telecommunications carriers seeking to reserve collocation space for their own future use. Upon request, Sprint will provide justification for denying a request to reserve space to Licensee based on a demand and facility forecast. Licensee will pay the reasonable and demonstrable cost of preparing the justification. Sprint will not exclusively and unilaterally reserve active space that is supported by existing telecommunications infrastructure space. Sprint will disclose to Licensee the space it reserves for its own future growth and for its interLATA, advanced services, and other affiliates.

**94. PROVISIONING INTERVALS.**

- 94.1. Caged Provisioning Intervals: Sprint will complete construction, including power, for collocation arrangements in Active Collocation Space within a maximum of 90 calendar days from receipt of a complete and accurate Bona Fide Firm Order. When Active Collocation Space has been exhausted, Sprint will complete construction of all other caged collocation spaces (i.e., caged, shared cage and adjacent space collocation) within 126 calendar days. If Sprint is unable to complete construction as provided herein, the parties may agree to a mutually acceptable interval or Sprint may petition the Commission for waiver.
- 94.2. Cageless Provisioning Intervals: Sprint will complete construction of Active Collocation Space requests for cageless collocation in 60 calendar days from the receipt of Licensee's Bona Fide Firm order where the Licensee is installing all of its own bays. Sprint will complete construction of Active Collocation Space requests for cageless collocation in 60 calendar days from the receipt of Licensee's Bona Fide Firm order where Sprint will be installing all or some of the bays. Sprint will complete construction of cageless collocation in Premises such as CEVs, Huts and Vaults in 105 calendar days from the receipt of Licensee's Bona Fide Firm order where Sprint will be installing all or some of the bays.
- 94.3. Virtual Provisioning Intervals: Sprint will complete construction of virtual

collocation arrangements in 60 calendar days from the receipt of the Licensee's Bona Fide Firm Order.

**95. EQUIPMENT.**

- 95.1. Equipment Type. Licensee may locate equipment necessary for interconnection to Sprint under 47.U.S.C. 251 (C) (2) and accessing Sprint's unbundled network elements under 47.U.S.C. 251 (C) (3).
- 95.2. Licensee's equipment and facilities shall not be placed or operated in such a manner that creates hazards or causes physical harm to any individual or the public.
- 95.3. All equipment to be collocated must meet Level 1 safety requirements as set forth in Telcordia Network Equipment and Building Specifications (NEBS), but Sprint will not impose safety requirements on Licensee that are more stringent than the safety requirements it imposes on its own equipment. Sprint may not deny collocation of Licensee's equipment because the equipment fails to meet NEBS reliability standards. If Sprint denies collocation of Licensee's equipment, citing safety standards, Sprint must provide to Licensee within five (5) business days of the denial a list of all equipment that Sprint locates within the Premises in question, together with an affidavit attesting that all of that equipment meets or exceeds the safety standard that Sprint contends the competitor's equipment fails to meet. In the event that Sprint believes that the collocated equipment is not necessary for interconnection or access to unbundled network elements or determines that Licensee's equipment does not meet NEBS Level 1 safety requirements, Licensee will be given ten (10) calendar days to comply with the requirements or remove the equipment from the collocation space. If the parties do not resolve the dispute, the Parties may file a complaint at the Commission seeking a formal resolution of the dispute. While the dispute is pending, Sprint will not prevent or otherwise delay installation of the disputed equipment in the Collocation space; however, Licensee will not activate the equipment during the pendency of the dispute.
- 95.4. Licensee must notify Sprint in writing that collocation equipment installation is complete and is operational with Sprint's network. If Licensee fails to place operational telecommunications equipment in the collocated space and connect with Sprint's network within 180 calendar days of Licensee's acceptance of Sprint's price quote, provided however that if Licensee makes a showing that construction delays or other Sprint-caused delays made the installation of equipment impossible within the 180 calendar days, the Parties will work together on another time period mutually agreed to by the Licensee and Sprint. After the 180 period or extension thereof, Sprint may terminate the applicable Collocation Space upon written notice. Licensee will reimburse Sprint for any reasonable and demonstrable expenses incurred and not already paid, which may include incidental equipment costs, material ordered, provided or used; labor; transportation, DS0, DS1 and DS3 cable and all other associated costs. Sprint

shall provide Licensee with a detailed listing of the costs incurred.

**96. AUGMENTS AND ADDITIONS.**

- 96.1. When Licensee adds equipment within initial forecasted demand parameters that requires no additional space preparation work on the part of Sprint, Sprint may not impose additional charges or additional intervals that would delay the Licensee's operation.
- 96.2. Sprint will provide reduced intervals, not to exceed the interval for a new collocation space, to Licensee with existing physical collocation space that requests augments. In such instances, the Licensee must provide an accurate front equipment view (a.k.a. rack elevation drawing) specifying bay(s) for the Licensee's point of termination.
- 96.3. The reduced provisioning interval will apply only when Licensee provides a complete Application accompanied by the applicable Augment Application Fee.
- 96.4. Licensee must submit an Application and applicable Augment Application fee to obtain a price quote. The price quote will contain the charges and the construction interval for that application. The construction interval for augments will not exceed 90 calendar days after acceptance and authorization by Licensee. If special or major construction is required, Sprint will work cooperatively with Licensee to negotiate mutually agreeable construction intervals for augments.

**97. USE OF COMMON AREAS.**

- 97.1. Licensee, its employees, agents and invitees shall have a non-exclusive right to use those portions of the common area of the Building as are designated by Sprint from time to time, including, but not limited to, the right to use rest rooms in proximity to the Collocation Space, corridors and other access ways from the entrance to the Building, the Collocation Space, and the parking areas adjacent to the Building for vehicles of persons while working for or on behalf of Licensee at the Collocation Space; provided, however, that Sprint shall have the right to reserve parking spaces for Sprint's exclusive use or use by other occupants of the Building. Sprint does not guarantee that there is or will be sufficient parking spaces in parking areas to meet Licensee's needs. Sprint does not guarantee that restroom facilities or water will be available. All common areas shall remain under the exclusive control and management of Sprint, and Sprint shall have the right to change the level, location and arrangement of parking areas and other common areas, as Sprint may deem necessary. Use of all common areas shall be subject to such reasonable rules and regulations as Sprint may from time to time impose, consistent with Licensee's right to access its Collocation Space.
- 97.2. Water. Sprint, where water is available for its own use, shall furnish running water from regular Building outlets for drinking, lavatory and toilet purposes drawn through fixtures installed by Sprint, for the non-exclusive use of Licensee,



Sprint and any other building occupant Licensee shall not waste or permit the waste of water.

- 97.3. Security Service. Sprint shall furnish Building and Premises security in accordance with its normal business practices. Other than the locks on the entrances to the Collocation Space, Sprint shall provide no security specific to Licensee's Collocation Space. Sprint shall not be liable to Licensee or any other party for loss of or damage to the Collocation Space or LOE unless Sprint has failed to provide Building and Premises security in accordance with its normal business practices or unless provided for in this agreement.
- 97.4. Elevator Service. Sprint shall furnish passenger elevator service as necessary to reach the Collocation Space or common areas to which Licensee has access pursuant to the terms of this Attachment 24 hours a day, seven days a week. Freight elevator service when used by Licensee's contractors, employees or agents shall be provided in a non-discriminatory manner as reasonably determined by Sprint.

#### **98. SPRINT'S SERVICES AND OBLIGATIONS.**

- 98.1. Adjacent in this Section 98 is referring to collocations in the same premises that have a common border; and is not referring to a form of physical collocation as described in CFR Part 47 51.323(k)(3).
- 98.2. For the term of this Agreement, unless earlier terminated, Sprint shall furnish the following services:
- 98.3. Interconnection. Sprint shall permit Licensee to interconnect its network, via cross-connect facilities, with that of another adjacent collocating telecommunications carrier at the Sprint Premises. Sprint will provide such cross-connect facilities for non-adjacent locations at the expense of the Licensee per the Licensee's request.
  - 98.3.1. If a Licensee occupies more than one Collocation Space location within the Premises, Licensee may interconnect its equipment contained in the two separate adjacent Collocation Space locations. Sprint will provide such cross-connect facilities for non-adjacent locations at the expense of the Licensee per the Licensees request.
- 98.4. Transmission Facility Options. For both Physical Collocation and Virtual Collocation, Licensee may purchase unbundled transmission facilities (and any necessary Cross-Connection) from Sprint, provide its own transmission facilities, or utilize the transmission facilities of a third party. The transmission facilities shall be terminated at the Licensee's Collocation Space or at a mutually agreed upon location within Sprint's Premises.

#### **99. RATES.**

- 99.1. The rates for collocation are listed on Attachment B.
- 99.2. If Licensee is the first CLEC in the Sprint premises, Licensee will not be responsible for the entire cost of site preparation and security. However, ancillary charges for unique collocator requests for collocation options directly attributable to the requesting collocator will not be prorated. Examples include power arrangements, remote switch module related options and POT bay-related options.
- 99.3. The rates and charges in this Attachment do not include costs for any Americans with Disability Act (ADA) construction generated or caused by the physical collocation space request. If required, ADA construction will be provided on an ICB. Sprint will prorate the total forward-looking economic cost of the upgrade fairly among all who benefit from the upgrade, including itself, Licensee and other collocators. Should Sprint be the sole beneficiary of an upgrade (e.g., an upgrade would have had to be made regardless of whether or not a CLEC was collocated in the Premises), Sprint shall absorb all of the costs related to such an upgrade.

#### **100. SPRINT SERVICES AND OBLIGATIONS.**

- 100.1. Environmental Controls. Sprint shall furnish air conditioning and/or other environmental controls for the area in which the Collocation Space is located in a manner consistent with those provided elsewhere in the Building. Sprint shall furnish air conditioning and/or other environmental controls for the Collocation Space based on information provided by Licensee to Sprint in its application which Licensee hereby represents to Sprint is sufficient to allow the LOE to function without risk of harm or damage to the Collocation Space, the Building or any equipment or facilities of Sprint or any other occupant of the Building. These environmental conditions shall adhere to Telecordia Network Equipment Building System (NEBS) standards GR-63-CORE Issue 2 or other mutually agreed standards.
  - 100.1.1. If Licensee locates equipment or facilities in the Collocation Space which Sprint determines, in the exercise of its sole discretion, affect the temperature or other environmental conditions otherwise maintained by Sprint in the Building, Sprint reserves the right to provide and install supplementary air conditioning units or other environmental control devices in the Collocation Space, and the cost of providing, installing, operating and maintaining any such supplementary air conditioning units or other environmental control devices made necessary solely by Licensee's equipment or facilities shall be paid by Licensee to Sprint. If supplementary air conditioning units or other environmental control devices are required for more than one Licensee each Licensee will pay a pro-rata share of such costs, in proportion to the space occupied by each as compared to the total space available for collocation.
- 100.2. Electricity. If Sprint, in the exercise of its reasonable business judgment, determines that the electricity provided to Licensee pursuant to this Section is

insufficient to support the activity being carried on by the Licensee in the Collocation Space, Sprint may require the installation of additional electrical circuits to provide Licensee with additional electricity and Licensee shall reimburse Sprint for any expenses incurred in making such additional electrical circuits available to Licensee's Collocation Space. Licensee shall also pay for additional electricity provided via these circuits.

- 100.2.1. Licensee covenants and agrees that Sprint shall not be liable or responsible to Licensee for any loss, damage or expense which Licensee may sustain or incur if either the quality or character of electrical service is changed or is no longer suitable for Licensee's requirements.
- 100.2.2. Licensee agrees to request in writing, via the Application, all electrical needs to power its equipment. The Application shall contain the total power needs, the date needed, and the exact location where termination of the electrical power shall occur. Actual capacity of licensee equipment shall not exceed the requested capacity.
- 100.2.3. Central office power supplied by Sprint into the Licensee equipment area shall be supplied in the form of power feeders (cables) on cable racking into the designated Licensee equipment area. The power feeders (cables) shall efficiently and economically support the requested quantity and capacity of Licensee equipment. The termination location shall be as agreed by the parties.
- 100.2.4. Sprint shall provide power as requested by Licensee to meet Licensee's need for placement of equipment, interconnection, or provision of service.
- 100.2.5. Sprint power equipment supporting Licensee's equipment shall:
  - 100.2.5.1. Comply with applicable industry standards (e.g., Telecordia, NEBS and IEEE) or manufacturer's equipment power requirement specifications for equipment installation, cabling practices, and physical equipment layout or at minimum, at parity with that provided for similar Sprint equipment;
  - 100.2.5.2. Have redundant power feeds with physical diversity and battery back-up as required by the equipment manufacturer's specifications for Licensee equipment, or, at minimum, at parity with that provided for similar Sprint equipment;
  - 100.2.5.3. Provide, upon Licensee's request, the capability for real time access to power performance monitoring and alarm data that impacts (or potentially may impact) Licensee traffic;
  - 100.2.5.4. Provide central office ground, connected to a ground electrode located within the Collocated Space, at a level above the top of

Licensee equipment plus or minus 2 feet to the left or right of Licensee's final request; and

- 100.2.5.5. Provide feeder cable capacity and quantity to support the ultimate equipment layout for Licensee's equipment in accordance with Licensee's collocation request.
- 100.2.6. Sprint shall provide cabling that adheres to Telecordia Network Equipment Building System (NEBS) standards GR-63-CORE Issue 2;
- 100.2.7. Sprint shall provide Lock Out-Tag Out and other electrical safety procedures and devices in conformance with the most stringent of OSHA or industry guidelines.
- 100.2.8. Sprint will provide Licensee with ten (10) business days prior written notification of any scheduled AC or DC power work or related activity in the collocated facility that will or might cause an outage or any type of power disruption to Licensee equipment located in Sprint facility. Sprint shall provide Licensee immediate notification by telephone of any emergency power activity that would impact Licensee's equipment.
- 100.3. Fire Safety System. Subject to the provisions of Section 100.3.3 hereof, Sprint may furnish an existing Halon 1301 Fire Suppression System, or may, but is not obligated to, provide its equivalent, to provide fire protection in the Collocation Space designed to comply with the National Fire Protection Association ("NFPA") 12A Standard on Halon 1301 Fire Extinguishing Systems or with NFPA standard 2001 dealing with alternative fire suppression agents. Sprint shall furnish fire and smoke detection systems designed to comply with the NFPA 72E Standard on Automatic Fire Detectors in effect as of the collocation date.
  - 100.3.1. Stand alone fire extinguishers will be provided in and about the Building and the Collocation Space by Sprint as required by applicable fire codes.
  - 100.3.2. Sprint and Sprint's insurance carriers will perform regular inspections of fire protection systems, and Licensee hereby agrees to provide Sprint and Sprint's insurance carriers access to the Collocation Space for purposes of such inspections, via pass key or otherwise. Sprint agrees to provide Licensee with notice of its intent to access Licensee's Collocation Space for fire protection systems inspections where, in Sprint's sole discretion, such notice is practicable; provided, however, that no failure of Sprint to give such notice will affect Sprint's right of access or impose any liability on Sprint. Sprint will, at its expense, maintain and repair the fire and smoke detection systems unless maintenance or repair is required due to the act or omission of Licensee, its employees, agents or invitees, in which case Licensee shall reimburse Sprint for the cost of such repair or replacement. If a Halon or alternative fire suppression system is in place, the Licensee shall, if at fault, and at Sprint's option, replace Halon or other fire extinguishing material discharged as a result

of Licensee's act or omission. Licensee shall have no duty to inspect fire protection systems outside the Collocation Space; provided, however, if Licensee is aware of damage to the fire protection systems it shall promptly notify Sprint.

100.3.3. Licensee is aware the Collocation Space will contain a fire detection system and may contain a fire suppression system. In the event of discharge, Sprint is relieved of all liability for damage to equipment or personal injury except in cases where such damage to equipment or personal injury is due to the gross negligence or willful misconduct of Sprint, its officers, agents or employees.

100.4. Repairs. Sprint shall, at its sole expense, except as hereinafter provided, provide repair and maintenance of heating, cooling and lighting equipment and regularly scheduled refurbishment or decorating to the Collocation Space, Building and Premises, in a manner consistent with Sprint's normal business practices.

100.4.1. Sprint shall not be obligated to inspect the Collocation Space, make any repairs or perform any maintenance unless first notified of the need in writing by Licensee. If Sprint shall fail to commence such repairs or maintenance within 20 calendar days after written notification, provided that such delays are not caused by Licensee, Licensee's sole right and remedy shall be, after further notice to Sprint, to make such repairs or perform such maintenance and to deduct that cost and expenses from the physical collocation fees payable; provided, however, that the amount of such deduction shall not exceed the reasonable value of such repairs or maintenance.

100.4.2. Sprint shall, where practical, provide Licensee with 24 hours prior notice before making repairs and/or performing maintenance on the Collocation Space; provided, however, that Sprint shall have no obligation to provide such notice if Sprint determines, in the exercise of its sole discretion, that such repair or maintenance must be done sooner in order to preserve the safety of the Building or the Collocation Space, or if required to do so by any court or governmental authority. Work shall be completed during normal working hours or at other times identified by Sprint; provided, however, that Licensee shall pay Sprint for overtime and for any other expenses incurred if such work is done during other than normal working hours at Licensee's request. Licensee shall have the right, at its sole expense, to be present during repair or maintenance of the Collocation Space.

100.4.3. The reasonable and demonstrable cost of all repairs and maintenance performed by or on behalf of Sprint to the Collocation Space which are, in Sprint's reasonable judgment, beyond normal repair and maintenance, or are made necessary as a result of misuse or neglect by Licensee or Licensee's employees, invitees or agents, shall be paid by Licensee to

Sprint within 10 days after being billed for such repairs and maintenance by Sprint.

100.5. Sprint shall provide Licensee with notice via email three (3) business days prior to those instances where Sprint or its subcontractors perform work which is known to be a service affecting activity. Sprint will inform Licensee by email of any unplanned service outages. Notification of any unplanned service outages shall be made as soon as practicable after Sprint learns that such outage has occurred.

100.6. Interruption of Services. Sprint reserves the right to stop any service when Sprint deems such stoppage necessary by reason of accident or emergency, or for repairs, improvements or otherwise; however, Sprint agrees to use its best efforts not to interfere with Licensee's use of Collocation Space. Sprint does not warrant that any service will be free from interruptions caused by labor controversies, accidents, inability to obtain fuel, water or supplies, governmental regulations, or other causes beyond the reasonable control of Sprint.

100.6.1. No such interruption of service shall be deemed an eviction or disturbance of Licensee's use of the Collocation Space or any part thereof, or render Sprint liable to Licensee for damages, by abatement of Licensee Fees or otherwise, or relieve Licensee from performance of its obligations under this Agreement. Licensee hereby waives and releases all other claims against Sprint for damages for interruption or stoppage of service.

100.7. Access. For physical collocation, subject to reasonable building rules and any applicable Security Arrangements, Licensee shall have the right of entry twenty-four (24) hours per day seven (7) days a week to the Building, common areas, Collocation Space and common cable space.

100.7.1. Sprint, at Licensee's expense, may issue non-employee photo identification cards for each Licensee employee or vendor. Temporary identification cards may otherwise be provided by Sprint for employees or agents, contractors and invitees of Licensee who may require occasional access to the Collocation Space.

100.7.2. Sprint may issue access cards, codes, or keys to Licensee's listed employees or vendors where such systems are available and their use by Licensee will not otherwise compromise building security.

100.7.3. Sprint reserves the right to close and keep locked all entrance and exit doors of the Premises during hours Sprint may deem advisable for the adequate protection of the Premises. Use of the Premises at any time it is unattended by appropriate Sprint personnel, or on Sundays and state and federal or other holidays recognized by Sprint, or, if Licensee's Collocation Space is not fully segregated from areas of the Premises containing Sprint equipment, shall be subject to such reasonable rules and regulations as Sprint may from time to time prescribe for its own

employees and third party contractors.

100.7.4. Sprint may require all persons entering or leaving the Premises during such hours as Sprint may from time to time reasonably determine to identify themselves to a watchman by registration or otherwise and establish their right to leave or enter, and exclude or expel any solicitor or person at any time from the Collocation Space or the Premises. Sprint assumes no responsibility and shall not be liable for any damage resulting from the admission or refusal to admit any unauthorized person or from the admission of any authorized person to the Premises, provided that such damage is not the result of gross negligence or willful misconduct on the part of Sprint.

100.8. Access Right of Sprint. Sprint shall have access to Licensee's Physical Collocation Space at all times, via pass key or otherwise, to allow Sprint to react to emergencies, to maintain the space (not including Licensee's equipment), and to monitor compliance with the rules and regulations of the Occupational Health and Safety Administration or Sprint, or other regulations and standards including but not limited to those related to fire, safety, health, and environmental safeguards. If a secure enclosure defining the location of the Licensee's Collocation Space has been established, and if conditions permit, Sprint will provide Licensee with prior notice (except in emergencies) of its intent to access the Collocation Space, thereby providing Licensee the option to be present at the time of access. Licensee shall not attach, or permit to be attached, additional locks or similar devices to any door or window, nor change existing locks or the mechanism thereof.

100.8.1. Sprint may enter the Collocation Space for the purposes of examining or inspecting same and of making such repairs or alterations as Sprint deems necessary. Licensee hereby waives any claim for damage, injury, interference with Licensee's business, any loss of occupancy or quiet enjoyment of the Collocation Space, and any other loss occasioned by the exercise of Sprint's access rights, except in the event such damages result solely from the gross negligence or willful misconduct of Sprint.

100.8.2. Sprint may use any means Sprint may deem proper to open Collocation Space doors or enclosures in an emergency. Entry into the Collocation Space obtained by Sprint by any such means shall not be deemed to be forcible or unlawful entry into or a detainment of or an eviction of Licensee from the Collocation Space or any portion thereof.

## 101. LICENSEE'S OBLIGATIONS.

101.1. Inspection and Janitorial. Licensee shall regularly inspect the Collocation Space to ensure that the Collocation Space is in good condition. Licensee shall promptly notify Sprint of any damage to the Collocation Space or of the need to perform any repair or maintenance of the Collocation Space, fixtures and appurtenances

(including hardware, heating, cooling, ventilating, electrical and other mechanical facilities in the Collocation Space). Licensee shall provide regular janitorial service to its Collocation Space and keep the Collocation Space clean and trash free.

101.2. Security Arrangements. Licensee agrees to abide by all of Sprint's security practices for non-Sprint employees with access to the Building, including, without limitation:

- 101.2.1. Licensee will supply to Sprint, and update as changes occur, a list of its employees or approved vendors who require access to the Premises. The list will include the social security numbers of all such individuals. Sprint may reasonably object to any person on the list, in which case that person will be denied entry into the building. Sprint's objections will be consistent with the grounds for denying access to personnel of its own contractors or for denying employment directly with Sprint.
- 101.2.2. Licensee is responsible for returning identification and access cards, codes, or keys of its terminated employees or its employees who no longer require access to the Collocation Space. All cards, codes, or keys must be returned upon termination of the applicable Collocation Space. Licensee will reimburse Sprint reasonable and demonstrable costs due to unreturned or replacement cards, codes, or keys.
- 101.2.3. Licensee's employees, agents, invitees and vendors must display identification cards at all times.
- 101.2.4. Licensee will assist Sprint in validation and verification of identification of its employees, agents, invitees and vendors by providing a telephone contact available 24 hours a day, seven days a week to verify identification.
- 101.2.5. Removal of all furniture, equipment or similar articles will be based on local Sprint security practices. These security practices will not be more stringent for Licensee than Sprint requires for its own employees or Sprint's contractors.
- 101.2.6. Before leaving the Collocation Space unattended, Licensee shall close and securely lock all doors and windows and shut off unnecessary equipment in the Collocation Space. Any injury to persons or damage to the property of Sprint or any other party with equipment in the Building resulting from Licensee's failure to do so shall be the responsibility of Licensee. Licensee will defend and indemnify Sprint from and against any claim by any person or entity resulting in whole or in part from Licensee's failure to comply with this section
- 101.2.7. Licensee agrees that Sprint may provide a security escort for physical collocation, at no cost or undue delay to Licensee, to Licensee personnel



while on Sprint Premises. While such escort shall not be a requirement to Licensee's entry into the Building, Licensee must allow the security escort to accompany Licensee personal at all times and in all areas of the Building, including the Collocation Space, if so requested.

- 101.2.8. Licensee shall post in a prominent location visible from the common Building area, the names and telephone numbers of emergency contact personnel along with names and telephone numbers of their superiors for 24 hour emergency use by Sprint. Licensee shall promptly update this information as changes occur.
- 101.3. Electricity. Licensee will provide Sprint with written notification within ten (10) business days of any scheduled AC or DC power work or related activity in the collocated facility that will or might cause an outage or any type of power disruption to Sprint equipment located in Licensee facility. Licensee shall provide Sprint immediate notification by telephone of any emergency power activity that would impact Sprint equipment.
- 101.4. Uninterruptible Power Supply (UPS). Licensee shall not provision and/or install UPS systems within the Sprint premises. The customer is permitted to install Inverted Power Systems if and only if documented compliance with National Equipment Building Standards (NEBS) III and Listing by Underwriters Laboratory (UL) has been met.
- 101.5. Electro-Chemical Stationary Batteries. Licensee shall not place Electro-Chemical Storage Batteries of any type inside the collocation space.
- 101.6. Interruption of Services. Licensee shall provide Sprint with written notice three (3) business days prior to those instances where Licensee or its subcontractors perform work, which is to be a known service affecting activity. Licensee will inform Sprint by email of any unplanned service outages. The parties will then agree upon a plan to manage the outage so as to minimize customer interruption. Notification of any unplanned service outage shall be made as soon as practicable after Licensee learns that such outage has occurred so that Sprint can take any action required to monitor or protect its service.
- 101.7. Telephone. Licensee may, at its own expense, install and maintain regular business telephone service in the Collocation Space. If requested by Licensee and at Licensee's expense, Sprint will provide basic telephone service with a connection jack in the Collocation Space.
- 101.8. Fire Protection Systems. Licensee shall, with the prior written consent of Sprint, have the right to provide additional fire protection systems within the Collocation Space; provided, however, that Licensee may not install or use sprinklers or carbon dioxide fire suppression systems within the Building or the Collocation Space.
  - 101.8.1. If any governmental bureau, department or organization or Sprint's

insurance carrier requires that changes or modifications be made to the fire protection system or that additional stand alone fire extinguishing, detection or protection devices be supplied within that portion of the Building in which the Collocation Space of Licensees in general are located, such changes, modifications, or additions shall be made by Sprint and Licensee shall reimburse Sprint for the cost thereof in the same proportion as the size of the Licensee's Collocation Space as compared to the total available collocation space in the affected portion of the Building.

- 101.9. Hazardous Materials. Licensee shall identify and shall notify Sprint in writing of any Hazardous Materials Licensee may bring onto the Premises, and will provide Sprint copies of any inventories or other data provided to State Emergency Response Commissions ("SERCs"), Local Emergency Planning Committees ("LEPCs"), or any other governmental agencies if required by the Emergency Planning and Community Right to Know Act (41 U.S.C. 11001, *et seq.*). Licensee, its agents and employees shall transport, store and dispose of Hazardous Materials in accordance with all applicable federal, state or local laws, ordinances, rules and regulations. Licensee will promptly notify Sprint of any releases of Hazardous Materials and will copy Sprint on any notification of or correspondence with any governmental agency which may be required by any environmental law as a result of such release.
- 101.9.1. Licensee shall provide Sprint copies of all Material Safety Data Sheets ("MSDSs") for materials or chemicals regulated under the OSHA Hazard Communication Standard (29 C.F.R. 1910.1200) that are brought onto the property. All such materials shall be labeled in accordance with 29 C.F.R. 1910.1200 and applicable state regulations if such regulations are more stringent.
- 101.9.2. If Sprint discovers that Licensee has brought onto Sprint's Premises Hazardous Materials without notification, or is storing or disposing of such materials in violation of any applicable environmental law, Sprint may, at Sprint's option and without penalty, terminate the applicable Collocation Space or, in the case of pervasive violation, this Agreement or suspend performance hereunder. Licensee shall be responsible for, without cost to Sprint, the complete remediation of any releases or other conditions caused by its storage, use or disposal of Hazardous Materials. Licensee shall also be responsible for removing and disposing of all Hazardous Materials on its Collocation Space at the termination of the applicable Collocation Space or this Agreement. If Sprint elects to terminate the applicable Collocation Space or this Agreement or discontinue the performance of services hereunder due to the storage, use or disposal of Hazardous Materials contrary to the terms of this Agreement, Licensee shall have no recourse against Sprint and shall be responsible for all costs and expenses associated with such termination

or suspension of service in addition to being responsible for any remedies available to Sprint for defaults under this Agreement.

101.9.3. Licensee shall indemnify and hold harmless Sprint, its successors and assigns against, and in respect of, any and all damages, claims, losses, liabilities and expenses, including, without limitation, all legal, accounting, consulting, engineering and other expenses, which may be imposed upon, or incurred by, Sprint or asserted against Sprint by any other party or parties (including, without limitation, Sprint's employees and/or contractors and any governmental entity) arising out of, or in connection with, Licensee's use, storage or disposal of Hazardous Materials.

101.9.4. For purposes of this Section, "Hazardous Materials" shall mean any toxic substances and/or hazardous materials or hazardous wastes (including, without limitation, asbestos) as defined in, or pursuant to, the OSHA Hazard Communication Standard (29 CFR Part 1910, Subpart Z), the Resource Conservation and Recovery Act of 1976 (42 U.S.C. Section 6901, et seq.), or regulations adopted pursuant to those statutes, the Toxic Substances Control Act (15 U.S.C. Section 2601, et seq.), the Comprehensive Environmental Response, Compensation and Liability Act (42 U.S.C. Section 9601, et seq.) or any other federal, state or local environmental law, ordinance, rule or regulation. The provisions of this Section shall survive the termination, cancellation, modification or recession of this Agreement.

101.10. Various Prohibited Uses. Licensee shall not do or permit anything to be done upon the Collocation Space, or bring or keep anything thereon which is in violation of any federal, state or local laws or regulations (including environmental laws or regulations not previously described), or any rules, regulations or requirements of the local fire department, Fire Insurance Rating Organization, or any other similar authority having jurisdiction over the Building. Licensee shall not do or permit anything to be done upon the Collocation Space which may in any way create a nuisance, disturb, endanger, or otherwise interfere with the telecommunications services of Sprint, any other occupant of the Building, their patrons or customers, or the occupants of neighboring property.

101.10.1. Licensee shall not exceed the Uniformly Distributed Live Load Capacity. Sprint LTD Real Estate Planning shall evaluate and determine live load capacity rating on a site specific basis prior to equipment installation. Licensee agrees to provide Sprint Real Estate Planning with equipment profile information prior to installation authorization.

101.10.2. Licensee shall not paint, display, inscribe or affix any sign, trademark, picture, advertising, notice, lettering or direction on any part of the outside or inside of the Building, or on the Collocation Space, without the prior written consent of Sprint.

- 101.10.3. Licensee shall not use the name of the Building or Sprint for any purpose other than that of the business address of Licensee, or use any picture or likeness of the Building on any letterhead, envelope, circular, notice, or advertisement, without the prior written consent of Sprint.
- 101.10.4. Licensee shall not exhibit, sell or offer for sale, rent or exchange in the Collocation Space or on the Premises any article, thing or service except those ordinarily embraced within the use of the Collocation Space specified in Sections 87 and 95 of this Attachment without the prior written consent of Sprint.
- 101.10.5. Licensee shall not place anything or allow anything to be placed near the glass of any door, partition or window which Sprint reasonably determines is unsightly from outside the Collocation Space; take or permit to be taken in or out of other entrances of the Building, or take or permit to be taken on any passenger elevators, any item normally taken through service entrances or elevators; or whether temporarily, accidentally, or otherwise, allow anything to remain in, place or store anything in, or obstruct in any way, any passageway, exit, stairway, elevator, or shipping platform. Licensee shall lend its full cooperation to keep such areas free from all obstruction and in a clean and neat condition, move all supplies, furniture and equipment directly to the Collocation Space as soon as received, and move all such items and waste, other than waste customarily removed by employees of the Building.
- 101.10.6. Licensee shall not, without the prior written consent of Sprint: install or operate any lead-acid batteries, refrigerating, heating or air conditioning apparatus or carry on any mechanical business in the Collocation Space. Sprint may, in its sole discretion, withhold such consent, or impose any condition in granting it, and revoke its consent at will.
- 101.10.7. Licensee shall not use the Collocation Space for housing, lodging or sleeping purposes.
- 101.10.8. Licensee shall not permit preparation or warming of food, presence of cooking or vending equipment, sale of food or smoking in the Collocation Space.
- 101.10.9. Licensee shall not permit the use of any fermented, intoxicating or alcoholic liquors or substances in the Collocation Space or permit the presence of any animals except those used by the visually impaired.
- 101.11. Rules of Conduct. Licensee, its employees, agents, contractors, and business invitees shall
- 101.11.1. comply with all rules and regulations which Sprint may from time

to time adopt for the safety, environmental protection, care, cleanliness and/or preservation of the good order of the Building, the Premises and the Collocation Space and its tenants and occupants, and

101.11.2. comply, at its own expense, with all ordinances which are applicable to the Collocation Space and with all lawful orders and requirements of any regulatory or law enforcement agency requiring the correction, prevention and abatement of nuisances in or upon the Collocation Space during the Term of this Agreement or any extension hereof.

101.12. Alterations. Licensee shall not make installations, alterations or additions in or to the Collocation Space without submitting plans and specifications to Sprint and securing the prior written consent of Sprint in each instance. Sprint's consent shall not be unreasonably withheld or unduly delayed for non-structural interior alteration to the Collocation Space that do not adversely affect the Building's appearance, value, structural strength and mechanical integrity. Such work shall be done at the sole expense of Licensee.

101.12.1. All installations, alterations and additions shall be constructed in a good and workmanlike manner and only new and good grades of material shall be used, and shall comply with all insurance requirements, governmental requirements, and terms of this Agreement. Work shall be performed at such times and in such manner as to cause a minimum of interference with Sprint's transaction of business. Licensee shall permit Sprint to inspect all construction operations within the Collocation Space.

101.12.2. All installations, alterations and additions which take the form of fixtures, except trade fixtures, placed in the Collocation Space by and at the expense of Licensee or others shall become the property of Sprint, and shall remain upon and be surrendered with the Collocation Space. Upon termination of this Agreement, however, Sprint shall have the right to require Licensee to remove such fixtures and installations, alterations or additions at Licensee's expense, and to surrender the Collocation Space in the same condition as it was prior to the making of any or all such improvements, reasonable wear and tear excepted.

101.12.3. All fixtures and other equipment to be used by Licensee in, about or upon the Collocation Space shall be subject to the prior written approval of Sprint, which shall not be unreasonably withheld.

101.13. Fireproofing Policy. Licensee shall not cut or drill into, drive nails or screws into, install conduit or wires, or in any way deface any part of the Collocation Space or the Building, outside or inside, without the prior written consent of Sprint. If Licensee desires signal, communications, alarm or other utility or service connections installed or changed, the same shall be made by and at the expense of

Licensee. Sprint shall have the right of prior approval of such utility or service connections, and shall direct where and how all connections and wiring for such service shall be introduced and run. In all cases, in order to maintain the integrity of the Halon space for proper Halon concentration, and to ensure compliance with Sprint's fireproofing policy, any penetrations by Licensee, whether in the Collocation Space, the Building or otherwise, shall be sealed as quickly as possible by Licensee with Sprint-approved fire barrier sealants, or by Sprint at Licensee's cost.

101.14. Equipment Grounding. LOE shall be connected to Sprint's grounding system.

101.15. Representations and Warranties. Licensee hereby represents and warrants that the information provided to Sprint in any application or other documentation relative to Licensee's request for telecommunications facility interconnection and Central Office Building collocation as contemplated in this Attachment is and shall be true and correct, and that Licensee has all necessary corporate and regulatory authority to conduct business as a telecommunications carrier. Any violation of this Section shall be deemed a material breach of this Agreement.

## **102. BUILDING RIGHTS.**

102.1. Sprint may, without notice to Licensee:

102.1.1. Change the name or street address of the Premises;

102.1.2. Install and maintain signs on the exterior and interior of the Premises or anywhere on the Premises;

102.1.3. Designate all sources furnishing sign painting and lettering, ice, mineral or drinking water, beverages, foods, towels, vending machines or toilet supplies used or consumed in the Collocation Space;

102.1.4. Have pass keys or access cards with which to unlock all doors in the Collocation Space, excluding Licensee's safes;

102.1.5. Reduce heat, light, water and power as required by any emergency conservation programs;

102.1.6. Approve the weight, size and location of safes, computers and all other heavy articles in and about the Collocation Space and the Building, and to require all such items and other office furniture and equipment to be moved in and out of the Building or Collocation Space only at such times and in such a manner as Sprint shall direct and in all events at Licensee's sole risk and responsibility;

102.1.7. At any time, to decorate and to make, at its own expense, repairs, alterations, additions and improvements, structural or otherwise, in or to the Collocation Space, the Premises, or any part thereof (including, without limitation, the permanent or temporary relocation of any existing

facilities such as parking lots or spaces), and to perform any acts related to the safety, protection or preservation thereof, and during such operations to take into and through the Collocation Space or any part of the Premises all material and equipment required, and to close or suspend temporarily operation of entrances, doors, corridors, elevators or other facilities, provided that Sprint shall limit inconvenience or annoyance to Licensee as reasonably possible under the circumstances. Sprint agrees to use its reasonable efforts not to interfere with Licensee's use of the Collocation Space;

102.1.8. Do or permit to be done any work in or about the Collocation Space or the Premises or any adjacent or nearby building, land, street or alley. Sprint agrees to use its reasonable efforts not to interfere with Licensee's use of the Collocation Space;

102.1.9. Grant to anyone the exclusive right to conduct any business or render any service on the Premises, provided such exclusive right shall not operate to exclude Licensee from the use expressly permitted by this Agreement, unless Sprint exercises its right under Section 4 of this Agreement and Section 86 of this Attachment to terminate this Agreement with respect to all or a portion of the Collocation Space;

102.1.10. Close the Building at such reasonable times as Sprint may determine, under such reasonable regulations as shall be prescribed from time to time by Sprint subject to Licensee's right to access.

102.2. If the owner of the Building or Sprint sells, transfers or assigns any interest in the Building, or there is any material change in the Lease to which the Building is subject, and such sale, transfers assignment or material change in the Lease gives rise to an obligation which is inconsistent with this Agreement, Sprint's performance under this Agreement shall be excused to the extent of the inconsistency. Sprint hereby agrees that it will use its reasonable efforts to avoid any such inconsistency; provided, however, that this obligation shall in no way obligate Sprint to incur any out of pocket expenses in its efforts to avoid such inconsistencies.

102.3. This Agreement shall at all times be subject and subordinate to the lien of any mortgage (which term shall include all security instruments) that may be placed on the Collocation Space and Licensee agrees, upon demand, to execute any instrument as may be required to effectuate such subordination.

### 103. INSURANCE.

103.1. During the term of this Agreement, Licensee shall carry, and shall cause any subcontractors to carry, with financially reputable insurers which are licensed to do business in all jurisdictions where any Property is located, not less than the following insurance:

- 103.1.1. Commercial General Liability with limits of not less than \$1,000,000 combined single limit per occurrence and aggregate for bodily injury, property damage and personal and advertising injury liability insurance to include coverage for contractual and products/completed operations liability, naming Sprint as additional insured;
- 103.1.2. Business Auto liability, including all owned, non-owned and hired automobiles, in an amount of not less than \$1,000,000 combined single limit per accident for bodily injury and property damage liability, naming Sprint as additional insured;
- 103.1.3. Workers' Compensation as provided for in the jurisdiction where the Property is located, with an Employer's Liability limit of not less than \$500,000 per accident or disease; and
- 103.1.4. Umbrella or excess liability in an amount not less than \$5,000,000 per occurrence and aggregate in excess of the above-referenced Commercial General, Business Auto and Employer's Liability, naming Sprint as additional insured; and
- 103.1.5. "All Risk" property insurance on a full replacement cost basis insuring Licensee's property situated on or within the Property, naming Sprint as loss payee. Licensee may elect to insure business interruption and contingent business interruption.
- 103.2. Nothing contained in this section shall limit Licensee's liability to Sprint to the limits of insurance certified or carried.
- 103.3. All policies of the Parties shall contain evidence of the insurer's waiver of the right of subrogation against the other Party for any insured loss covered thereunder. All policies of insurance shall be written as primary policies and not contributing with or in excess of the coverage, if any, that Sprint may carry.
- 103.4. Licensee shall furnish to Sprint a certificate or certificates of insurance, satisfactory in form and content to Sprint, evidencing that the above coverage is in force and has been endorsed to guarantee that the coverage will not be cancelled or materially altered without first giving at least 30 days prior written notice to Sprint.
- 103.5. Licensee may, upon written notice to Sprint, self-insure all or part of the above requirements. Upon such disclosure, Licensee agrees that nothing diminishes Licensee's responsibilities to Sprint that would have otherwise been covered by the required insurance.
- 103.6. Sprint will carry not less than the insurance coverages and limits required of Licensee

#### 104. INDEMNIFICATION.



104.1. Licensee shall indemnify and hold Sprint harmless from any and all claims arising from:

104.1.1. Licensee's use of the Collocation Space unless such use was permitted by this Agreement;

104.1.2. the conduct of Licensee's business or from any activity, work or things done, or permitted by Licensee in or about the Collocation Space or otherwise related to the Collocation Space;

104.1.3. any and all claims arising from any breach or default in the performance of any obligation on Licensee's part to be performed under the terms of this Attachment; and

104.1.4. any negligence of the Licensee, or any of Licensee's agents, and fees, expenses and liabilities incurred in the defense of any such claim or any action or proceeding brought thereon.

104.2. If any action or proceeding is brought against Sprint by reason of any such claim under 104.1, Licensee, upon notice from Sprint, shall defend same at Licensee's expense employing counsel satisfactory to Sprint.

104.3. Licensee shall at all times indemnify, defend, save and hold harmless Sprint clear and harmless from any claims, liens, demands, charges, encumbrances, litigation and judgments arising directly or indirectly out of any use, occupancy or activity of Licensee, or out of any work performed, material furnished, or obligations incurred by Licensee in, upon or otherwise in connection with the Collocation Space. Licensee shall give Sprint written notice at least 10 business days prior to the commencement of any such work on the Collocation Space in order to afford Sprint the opportunity of filing appropriate notices of non-responsibility. However, failure by Sprint to give notice does not reduce Licensee's liability under this section.

104.3.1. If any claim or lien is filed against the Collocation Space, or any action or proceeding is instituted affecting the title to the Collocation Space, Licensee shall give Sprint written notice thereof as soon as Licensee